

PUBLISHED BY AUTHORITY

सं• 41]

मई दिल्ली, श्रमिबार, अक्तूबर, 8, 1988 (अश्विन 16, 1910)

No. 411

NEW DELHI, SATURDAY, OCTOBER 8, 1988 (ASVINA 16, 1910)

इस भाग में भिन्न पुष्ठ संख्याऔर जातो है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग 111-खण्ड 2

[PART III--SECTION 2]

पेटेस्ट कार्यालय द्वारा जारी की गई पेटेस्टों और डिजाइनों से सम्बन्धित अधिसूत्रनाएं और नोटिसें [Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 8th October 1988

ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below:—

Phient Office Branch, Todi Estates, III Floor, Lower Parel (West), Bombay-400 013.

The States of Gujarat, Maharashtra, and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch, Unit No. 401 to 405, III Floor, Municipal Market Building. Saraswati Marg, Karol Bagh, New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

1--277 GI/88

Patent Office Branch, 61, Wallajah Road, Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "Patentofis"

Patent Office, (Head Office), "NIZAM PALACE", 2nd M. S. O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees:—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

(1037)

SPECIAL NOTICE

The qualifying examination as prescribed in clause (c) (ii) of Sub-Section (1) of Section 126 of the Patents Act, 1970 read with Rule 95 of the Patents Rules, 1972 will be held at the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi on Monday, the 5th December, 1988.

The Schedule of the qualifying examination will be as follows:-

Paper 2-Patents Act & Rules-10.30 Am to 1.00 Pm.

Paper II—Drafting and interpretation of Patent Specifications and other documents.—2.30 Pm to 5.00 Pm.

The Viva Voca Examination will be held on Tuesday, the 6th December, 1988 at 11.00 A. M.

ALTERATION OF AN ENTRY IN THE REGISTER OF PATENT AGENTS UNDER RULE 103 OF THE PATENTS RULES 1972

In pursuance of an application on Form 52 the address of principal place of business of Shri N. J. Antony has been altered to :---

Sultan's Battery P.O., Wayanad District, Kerala.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CAI.CUTTA-20.

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 1st September 1988

- 733/Cal/88. Istituto Guido Donegani S.p.A. N-(haloben-zoyl)-N-2-halo-4-[1, 1, 2-trifluoro-2-(trifluoromethoxy) Fthoxy]-phenyl-ureas with insecticide activity.
- 734/Cal/88. Phillips Petroleum Company. Process for "olefin polymerization.
- 735/Cal/88. Dynamic Air Inc. Butterfly valves.
- 736/Cal/88. Serck Backer Limited. Separator.
 (Convention dated 5th September, 1987 and 5th September, 1987) both are U. K.

The 2nd September 1988

737/Cal/88. Siemens Aktiengesellschaft, A box-like electronic printed circuit board module.

[Divisional dated 7th May, 1985].

- 738 /Cal/88. Yoshio Yokoyama. Condensation catalyst and catalytical condensation process for organic carboxylic anhydrides.
- 730 Col/88. Didier Besnouin, Pharmaceutical composition intended for the prevention and treatment of bacterial or viral diseases and process for preparing the same.

The 5th September 1988

- 740/Cal/88. B. V. Optische Industrie "De Oude Delft". Equipment for slit radiography.
- 741 'Cal/88. Texaco Development Corporation. Thermocouple for use in a hostile environment.
- 742/Cal/88. Armco Advanced Materials Corporation. Silicon modified low chromium ferritic alloy for high temperature use.
- 743/Cal/88. Emitec Gesellschaft Fur Emissionstechnologie MBH. Driveshaft with driving elements attached to it in groups.

The 6th September 1988

- 744/Cal/88. Australian wire Industries Pty. Ltd. Determination of coating thickness.
- 745 / Cal/88. Ukrainsky Institut Inzhenerov Vodnogo Khozyaistva USSR. Electrolyzer for purification of fluids.
- APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI

The 16th August 1988

- 702/Del/88. Bharat Heavy Electricals Limited, "Improvement in or relevant to power supplies for electrostatic precipitators".
- 703/Del/88. The B. F. Goodrich Company, "Hydrogenated, ring-opened polymers of cycloolefins".
- 704/Del/88. The B. F. Goodrich Company, "Dental calculus inhibiting compositions".
- 205/Del/88. The B. F. Goodrich Company, "PVC Overpolymer".
- 706/Del/88. S. Venkatesan, "A bicycle".

The 17 August 1988

- 707 'Del/88. Miles Inc., "Oxidative rainbow".
- 708/Del/88. The Lubrizol Corporation, "Gas and Alcohol recovery process".
- 709/Del/88. Alcan International Ltd., "Production of ceramic powders by emulsion precipitation processes and the products thereof". (Convention date 19th August, 1987) (Canada).
- 710/Del/88. Imperial Chemical Industries PLC, "Bonding metal components". (Convention date 18th September, 87 and 1st February, 1988) (U. K.).

The 18th August 1988

- 711. Del/88. Wilkinson Sword Gesellschaft Mit Beschrankter Haftung, "Razor blade unit".
- 712/Del/88. Wilkinson Sword Gesellschaft Mit Beschrankter Haftung, "Razor blade unit".
- 713/Del/88. E. R. Squibb & Sins Inc., "New Pharmaceutical compositions in the form of beadlets and method".

The 19th August 1988

- 714/Del/88. Council of Scientific and Industrial Research, "An improved process for the preparation of high temperature superconductor".
- 715 Del/88. Enrique Bernat Fontlladosa, "Process for the manufacture of lollipops". [Divisional date 12th March, 1986].
- 716/Del/88. Norsk Hydro A. S., "Flexible container having improved lifting loops".
- APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

The 22nd August 1988

- 193/ Mas/88. N. Nagarajan. Economic Cooking Appliances.
- 594/Mas/88. Takeda Chemical Industries, Ltd. Process of producing sulfonylureas.
- 595 / Mas / 88. Sumitomo Metal Industries, Ltd. & Kanpoo Steel Co., Ltd. Binding-up band with locking structure.

The	23rd	August	1088
THE	231U	ALUKUMI	1700

596/Mas/88. Sandoz Ltd. Reclaiming of Waste Concrete. (August 24, 1987; England).

The 25th August 1988

597 Mas/88. Deutsche Texaco Ag. Process for the Purifying distillation of crude sec-butyl alcohol.

The 26th August 1988

- 598/Mas/88. Fosbal International Limited. Apparatus for spraying refractory material. (September 11, 1987; United Kingdom).
- 599/Mas/88. Aida Engineering Ltd. Method and apparatus for manufacturing a constant velocity joint and the like.
- (0)/Mas/88. James Hardie Irrigation, Inc. Irrigation hose with linear turbulent flow emitter.
- 601/Mas/88. Sandoz Ltd. Improvements in or relating toorganic compounds.

ALTERATION OF DATE

163553.

(464/Del/84) Ante dated to 16th August, 1980.

163560.

(377/Bom/87) Ante dated to 14th May, 1986.

163580.

(210/Cal/87) Ante dated to 10th January, 1984.

OPPOSITION PORCEEDINGS

The Opposition entered by Miss Vijaya Raghavan Kalyani to the grant of a Patent on Application No. 154367 made by Shri Periasamy Mathivanan as noitfied in the Gazette of India, Part III, Section 2 dated the 4th May, 1985 has been dismissed and the Patent has been ordered to be sealed.

PATENTS SEALED

156683	156824	156825	157789	160054	160737	160865
160918	160920	161011	161200	161222	161271	161282
161321	161323	161324	161336	161379	161411	161412
161415	161431	161432	161433	161435	161436	161437
161438	161439	161461	161479	161482	161488	161489
161494	161495	161539	161822	161893	161936	161947
162046	162047	162048	162060			

AMENDMEN'T PROCEEDINGS UNDER SECTION 57, OF THE PATENTS ACT, 1970

Notice is hereby given that Lucas Industries Public Limited Company, of Great King Street, Birmingham-19, England, have made an Application under Section 57 of the Patents Act, 1970, for amendment of the Complete Specification of their Application for Patent No. 153873 for "MASTER CYLIDER". The amendments are by way of correction. The Application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in Opposing the Application for amendment may file a Notice of Opposition on the prescribed Form-30 within 3 months from the Notification at the Patent Office, Madras. If the Written Statement of Opposition is not filed within the Notice of Opposition it shall left within one month from the date of filing the said Notice.

RENEWAL FEES PAID						
141154	142100	142439	142703	143184	143236	143928
144082	144150	144860	144951	145013	145267	145498
145498	146792	146966	147175	147866	148891	149188
149744	149880	149929	149961	150993	151384	151523
151543	151606	151642	151719	151786	151848	151962
152258	152373	152567	152776	152968	152981	153086
153447	153585	153748	153921	153941	154023	154026
154124	154200	154494	154591	154593	154633	154634
154674	154678	154745	154793	154868	154869	154967
15 5 093	155281	155450	155457	155458	155473	155478
155497	155498	155545	155628	155806	155807	15 <u>58</u> 69
156060	156253	156306	156452	156517	156521	156559
156671	156958	157173	157234	157313	157378	157385
157429	157469	157768	157873	157971	157987	158004
158067	158243	158343	158497	158592	158611	158619
158640	158641	158770	158795	158818	158852	158949
158953	158954	159034	159039	159051	159052	159074
159077	159091	159092	159095	159131	159133	159136
159153	159156	159202	159203	159321	159327	159355
159356	159436	159555	159558	159666	159685	159719
159979	160086	160112	160156	160157	160326	160713
160849	160869	161040	161075	161078	161114	161220
161230	161244	161245	161248	161254	161256	161260
161300	161301	161339	161340	161341	161342	161346
161347	161349	161350	161384	161396	161407	161629

CESSATION OF PATENTS

142900	142906	142907	142908	142909	142910	142913
142914	142915	142916	142917	142918	142921	142924
142925	142926	142928	142932	142935	142936	142938
142941	142942	142944	142945	142949	142951	142952
142953	142954	142956	142957	142959	142962	142971
142973	142974	142975	142978	142980	142982	142983
142985	142988	142990	142996	142997	142998	142999
143001	143002	143003	143004	143006	143008	143010
142012	157203.					

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date or registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class 1. No. 159453. The Gillette Company of Prudential Tower Building, Boston State of Massachusetts 02199, U. S. A. "Razor". March 2, 1988.
- Class 3. No. 159447. Wallfrin International, 1st floor, 114/ 115, Bussa Industrial Estate, Near Century Bazar, Bombay-400 925, Maharashtru, India, an Indian Partnership Firm, "Tray". March 2, 1988.
- Class 3. No. 159790. International Business Machines Corporation of Armonk, New York 10504, U. S. A., an American Company. "Data processing apparatus". Priority date March 23, 1988 (U.K.).
- Class 3. Nos. 159818 to 159820. Scicon International (Pvt.)
 Ltd. of Arvind Chambers, 2nd floor (Gouri Studio Compound), 194, Andheri-Kurla Road,
 Andheri (E), Bombay-400069, Maharashtra,
 India, Indian Company. "Container". June 15,
 1988.
- Class 3. 159875. Crompton Greaves Limited of 1, Dr. V. B. Gandhi Marg, Bombay-400023, Maharashtra, India, an Indian Co. "Reflector for fluorescent tube light". June 23, 1988.

Class 4. No. 159430. The Mabalakshmi Glass Works Pvt. Ltd., Dr. E. Mosses Road, Jacob Circle, Bom-bay-400011, Maharashtra, India a private limited company. "Bottle". February 25, 1988.

Class 4. No. 159490. Bisil Plast Pvt. Ltd., 406/7, Silver Oaks Comm. Complex, Opp: Arun Society, Paldi Ahmedabad-7, Gujarat, Indi. "Bottle". March 14, 1988.

Class 5. No. 159146. GTC Industries Limited, Indian Company at Tobacco House, Vile Parle, Bombay-400 056, Maharashtra, India. "Cigarette Packet". December 8, 1987.

NAME INDEX OF COMPLETE SPECIFICATIONS ACCEPTED DURING THE YEAR 1984 (NOS. FROM 152391—155100)

Name & Appln. No.

__A_

A. Ahlstrom Osakeyhtio.—154347.

ABEX Corporation.—152520, 154618, 154962.

AE 'Mcdline,-153522.

Ab Myonetricon.-154621.

AE PLC:-154496.

A. G. (Patents) Limited .- 154385.

A. P. V. Company Ltd., The.—154234, 154238, 154553.

ASK Consultants Private Ltd.-152465.

A/S N. Foss Electric.—152513, 152788,

Abcobacker, A. P .- 152578.

Abbott, R. L .-- 154277.

Abplanclp, R. H.-154639.

Abraham, C. J.—152582.

Access Control System Pty. Ltd.-152557.

Achari, M.-152447.

Achari, N.-152447.

Adnovum AG.-154477.

Asci Limited.-153794.

Agrawalla, T. C .- 152979.

Ahmedabad Mfg. & Calico Printing Co., Ltd., The. -154707, 154708.

Ahmedabad Textile Industry's Research Association.—153812, 153864, 154321, 154709.

Aimants Ugimag S.A.-153578.

Air Preneator Company, Inc., The .-- 154684.

Air Products and Chemicals Inc.—153263, 153725.

Airwick AG.-152661, 152745.

Aktiebplaget Iro.—152553, 152781, 152789.

Aktiengesellschaft Fr. Mettlers Sohne Maschinenfabrik.— 152707.

Aktieselskabet De Danske Sukkerrfabrikker,-153212.

Akzona Incorporated.-154748, 154757.

Akzo N. V.-153908.

Albany International Corpn.-153319.

Alcan Research and Development Ltd.-154733.

Alex, B. (Mrs.).-152577.

Alfa-Laval AB.-153288, 152824.

Name & Appln. No.

---A (contd.)---

Algas Resources Ltd,--153859.

Alikhan, R.—152787.

Alimanikfan, M. M.-152393.

Allecheny Ludlum Industries, Inc.-154736.

Allflex International Ltd.-154547.

Allegheny Ludlum Steel Corporation.—152391.

Allied Tube & Conduit Corporation.—155088.

Allis-Chalmers Corpn.—153226.

Alkali and Chemical Corporation of India Ltd., The.— 153599, 154051, 154467, 154494, 154647, 155091.

Allsop Inc.-153647.

Alsthom-Atlantique.—154287, 154341, 154397, 154700, 155010.

Alathem-Saveisienne S.A.—154735.

Altekar, Y. D .- 154552.

Allware Agencies Limited .- 154212.

Almalysky Gerne-Metallurgichesky Kembinat,---153295.

Aluminium De Grece.—153964.

Aluminium Pechiney.—152480, 153364, 152568, 153550, 154431.

American Cam Co.-153673, 154433.

Ameriaan Cyanamid Co.—152486, 153347, 153523, 153478, 153484, 154435, 155095.

Americal Flange & Manufacturing Co. Inc.-153008.

American Home Products Corporation.-152464.

American Petrofina Inc.-153154, 153618.

American Roto Bearing Co., The .- 152730.

American Standar Inc.-152755, 153011, 154794.

American Casale S.A.-152944, 153923.

Amsted Industries Inc.—153141, 153143, 153144, 153164, 153583, 153749, 153975, 1546/3.

Amtel Inc.-153541.

Anand, S. K .-- 154092.

Anaren Microwave Incorporated.-152590.

Anic S.p.A.—153579, 154572.

Anvar-Agence Nationale De Vale-risation De Ja Recherche,—154012.

Apparatus for Studying Surface Properties.-153131.

Application Des Gaz,-152923, 154534.

Arbed S. A.—154306, 154540, 154855.

Archakov, V. P .-- 152951.

Arc Technologies Systems Ltd.—155086.

Armco Inc.-153225, 153982.

Arvind Mill Limited, The .- 154083.

Asahi Glass Co., Ltd.—153140, 155085.

Asahi Kasoi Kogyo Kabushiki Kaisha.—152793, 153146. 153451, 153536, 153907, 154418, 154593, 154740.

Asea Aktiebelag.--153807.

Ashland Oil Inc.—153681, 155029, 155030, 155031, 155032.

Ashok, T. T .- 154369.

Associated Cement Companies Limited.—154957.

Associated Engineering Itlay Spa.-153621, 153682.

Astilleres Espaneles, S. A.—153167.

Atawahe, V. M.-153995.

Name & Appln. No.

-A (contd.)-

Atlas Copec Aktiebolag.—153175.

Atlas Kanpur Power Company.-154239.

Australasian Training Aids (PTY) Ltd.—153491.

Automotive Products PLC .-- 154338.

Avco Corpn.—153589.

Avery Hardoll Limited .- 155069.

Ayasensky Radiotokhnichesky Institut.—152785.

---B---

BASF Aktiengesellschaft.—152638, 154617.

B. F. Foodrich Company, The.—152463, 152726, 152829, 153485, 153528, 154586, 154795.

B & W Diesel A/S .- 152623, 153883.

Babcock & Wilcox Co., The .- 152938, 152861, 153161.

Bab, J.-152844.

Bakelittfabrikkem A/S.-153259.

Bakshofv, I. P.—154787.

Baloke-Durr AG.-152458.

Balique, G. A.—154510.

Ball Corporation .- 153631.

Ballestra Chimica S.P.A.—152501, 152762.

Bam. A. V.--155052...

Bammert, K. (Prof. Dr.-Ing.).—153930, 154526

Banerjee, A. K .- 153539.

Barchha, V. V .-- 153020, 153021.

Barnes, A. C.—153818, 153819, 153820, 153821, 153860, 154569.

Barnes, C. K .- 153818, 153819, 153820, 153821, 153860.

Barnes, C. E. B .- 154569.

Baroi, S. I .- 153100.

Barr & Stroud Limited.—152688, 153955, 154125, 154154, 154209, 154270, 154358, 154481, 154661, 154900, 154940.

Barthakur, S .- 154634.

Bataille, J. R .- 154566.

Bataille, N. J. J .-- 154566.

Battelle Development Corpn.-153648, 154038.

Bau-Und Ferschun Gagesellschaft Thermoform A. G.— 153197.

Bayer Aktiengesellschaft.—153052, 153056, 153228, 153388, 153392, 153588, 153771, 153815, 154405, 154502, 154512, 154928.

Bayer (India) Limited.—152395.

Behari, J.-152540, 153858.

Beheermaatschappij H. D. Greeneveld B. V.—154250.

Beli, T. F .- 154139.

Beloit Corporation.—152525, 152559, 152598, 152703, 153018, 154483, 154576, 154817, 154884.

Bell Maschinenfabrik AG .- 154690.

Bemmel, T. V .- 152555.

Benatar, V.-153849.

Bendix Corpn., The.—153027, 153059, 153060, 153104, 153105, 153106, 153117, 153185, 153235, 153464.

Berger, J.-154107.

Name & Appln. No.

-B (contd.)-

Berthold Haller KG.-154377.

Bertin & Cie.-153609.

Best & Crompton Engineering Limited,-152467, 152580, 153870.

Beter Autokits Pvt. Ltd,-153030.

BETH GMBH.-152761.

Bethlehem Steel Corpn.—153014, 153015, 153380, 154256.

Beyeler, J.-153024.

Bhabha Atomic Research Center,—153801, 153994, 153999.

Bhagavatheeswaran, N.--153436.

Bhagwat, R. V .-- 154998.

Bhar, S.-154094.

Bharat Atomic Research Centre .- 153797, 153801.

Bharat Heavy Electricals Limited.—152478, 152482, 152483, 152545, 152546, 152547, 152611, 152612, 152869, 153115, 153241, 153242, 153243, 153256, 153258, 153302, 153304, 153333, 153358, 153359, 153360, 153378, 153775, 153817, 153862, 154237, 154297, 154726.

Bhartia, K. B .-- 153800.

Bhat, A. R.-153328,

Bhatnagar, S .-- 153357.

Bhavans Chemicals Private Ltd.-155048, 155049.

Bhoot, S. S.—152397.

Bhrany, U.P. (Dr.).—153250.

Bieffe S.P.A .- 152593.

Binny Ltd.-155040.

Biogen N. V.-153751.

Birla Institute of Scientific Research.-153343.

Biuro Projektow Przemyslu Metali Niezelaznych Bipromet.— 154641.

Blaser, R. F.-153924.

Blue Circle Industries Ltd.-153287.

Boardman Energy Systems Inc.-153731.

Bocognano, R. J.-154296.

Bogey B. V .-- 154444.

Bombay Textile Research Association, The.—152396, 154997.

Borfglace Limited .- 153981.

Broinevich, 1. V.-152951.

Berodkin, A. A.—152735.

Braillon, P. M.—154670.

Brakes India Limited.—153829.

Breilly S.A.—154819.

Brennstoffinstitut Freiberg .- 152964, 153534, 154344,

British Aerospace Public Limited Company.-154674.

British Petroleum Co., Ltd., The.—153057, 153070, 153132, 154515, 154977.

British Railways Board.—152423, 152955, 153321.

British Sidac Ltd.-155082.

British Steel Corpn.—153690.

Brovarsky Zavod Poroshkovoi Metallurgii.—153582.

Brown & Williamson Totacco Corpn,—153353, 154266, 154450, 154486, 154907.

Brun, R. P.—152269.

Buckman Laboratories Inc.-152695.

-B (contd.)-

Burn Standard Co., Ltd.-152901.

Burroughs Corporation.—152437, 152504, 152507, 152566, 152601, 152655, 152681, 152981, 153063, 153108.

Burth, W.-154130.

Butyagin, P. A.—154787.

Buzas, A.-154316, 154317.

-c-

C. Eugen Waier Metallverazbeitung GMBH.-153962.

C-I-L. Inc.-153804, 154078, 154756, 154764.

CPC International Inc.—152971, 153679, 153842, 154089, 154830.

CSR Limited.—152751.

Cabot Corporation.—153979.

Cahill, P. J .- 153291.

Calcutta Fan Works Pvt Ltd.—153489.

Calhoun, C. W .-- 152521.

Calor Group Limited, The.—152617.

Cambridge Consultants Limited .-- 154676.

Campbell, F. (Jr.) .- 152459, 153089, 154134.

Camphor and Allied Products Ltd.—153124, 153125, 154415, 154860, 154861, 154862.

Cannavan, C. J .-- 153153.

Carboindustrial S. A .- 153882.

Cardiffair Pty. Ltd .-- 154826.

Card-O-Matic Pty. Ltd.--153594.

Carrier Corpn.—152999.

Cassella Aktiengesellschaft .-- 154579.

Castolin Societe Anonyme, -154645.

Celamerck GmbH. & Co. KG.-152539.

Cement Research Institut of India.—154383, 154384, 154728, 154729.

Cenanovic M.-154626.

Central Machine Tool Institute.—153123.

Central Power Research Institut.—154720.

Central Road Research Institute.-154672.

Center for Design Research & Development N. V.-154594.

Centre De Recherches Metallurgi-ques-Centrum Voor Re-Search In De Metallurgic.—154221, 154749.

Centre Stephanois De Recherches Mecaniques Hydromecanique Et Frottoment,—154426.

Chakrabarty, A. B.—153328.

Champhor and Allied Products Ltd.-154322.

Chandhoke, K. K .- 154000.

Chandola, A.—154550.

Charbonnages De France.-153919.

Chaurasia, B. K. D. P.—153677.

Chem-Crete Corpn.—154640.

Chemicals and Fibres of India Ltd.—154051, 155091.

Chemie Linz Aktiengesellschaft.—155028.

Chemische Fabrik Stockhausen Gmba.-155678.

Chevanne, S. V. L.—153269.

Name & Appln. No.

-C (contd.)-

Chevron Research Company.—154803.

Chicopee.—152873.

Chief Controller of Research & Development, Research & Development Organisation, Ministry of Defence.—152860, 153102, 153880, 154334, 154765.

Chiou, S.—153592.

Chitnis, H. R.-152838.

Chitnis, R. V .- 152838.

Chiyoda Chemical Engineering & Construction Co., Ltd.—152942.

Chloride Group Limited.—152628, 152648, 152669, 152678, 152679, 153221, 154232.

Chloride India Ltd,—153201, 153954.

Chloride Silent Power Ltd.-153630.

Chlorine Engineers Corpn. 1 td.—153079.

Christy & Norris Ltd.—154660.

Chugai Denki Kogyo Kabushiki Kaisha.-152570.

Chung, S. Y .- 153163.

Chury, C. G. R .- 153441.

Ciba-Geigy AG.—153293, 153407, 154664, 154697.

Cie Miniere De l'Ogooue (Comilog).-153715.

Cimmco International.—154290.

Circle Machine Company, Inc.—154904.

Clark & Corporation.—153414.

Clark & Vicario Corporation.—153810.

Clavel, M. E. G.-154402.

Coc-Luxembourg S. A.—153095.

Colgate-Palmolive Co.-153054, 153055, 153394, 154730,

Collins, L. D.-154538.

Colt Industries Operating Corpn.-154300.

Colvetts, D.-154106.

Combustion Engineering, Inc.—152602, 152605, 152976, 153229, 153613, 153662, 153708, 153711, 153714, 153851, 153695, 154095, 154145, 154146, 154545, 154577, 154648, 154821, 154917, 154941.

Commonwealth Scientific & Industrial Research Organisation .- 154629.

Compagnic Francaise D' Etudes Et De Construction "Technip".—155020.

Compagine Miniere De l'Ogooue Comilog.-153938.

Compagnie Neerlandaise De l'azoto (Societe Anonyme) - 153917, 153960.

Compair Industrial Ltd.—152985.

· Company "A" (Foam) Ltd.—153034,

Competent Authority Government of Sri Lanka, The.-154018.

Comtech Communication Corporation.-154153.

Conner, A. J. (Sr.).—154050.

Connolly, J. P .-- 154466.

Conoco Inc.—152796, 153936.

Consunttrator, Inc.-153101.

Continental Carbon Company.-153953.

Contraves Italiana S.P.A.—152705.

—C (contd.)—

Conveyor Equipment Company Pvt. Ltd.—153834.

Copes-Vulcan, Inc.-153620.

Corak Limited.-154991, 154992.

Corring Glass Works.—152643, 152644, 153111, 154436, 154623, 154809, 154891.

Cosden Technology, Inc.—154457, 154458.

Council of Scientific & Industrial Research,-152476, 152538, 152541, 152720, 152854, 152855, 152856, 152857, 152858, 152995, 152996, 152997, 153023, 153058, 153190, 153227, 153246, 153299, 153301, 153303, 153336, 153337, 153367, 153382, 153384, 153415, 153416, 153417, 153423, 153460, 153505, 153506, 153507, 153508, 153515 153543, 153546, 153547, 153551, 153587, 153595, 153634, 153636, 153637, 153683, 153686, 153762, 153763, 153765, 153766, 153790, 153790, 153803, 153823, 153824, 153841, 153861, 153877, 153878, 154003, 154053, 154054, 154064, 154065, 154077, 154171, 154177, 154178, 154188, 154233, 154280, 154299, 154301, 154312, 154331, 154335, 154380, 154382, 154387, 154394, 154396, 154403, 154410, 154413, 154414, 154460, 154561, 154570, 154665, 154666, 154667, 154668, 154669, 154692, 154702, 154722, 154751, 154752, 154753, 154760, 154929, 154930, 155011, 155016. Creslius AB.—154260.

Crane Packing Limited .- 155066.

Creusct-Loire Entreprises.—154374, 154856.

Cromton Greaves Limited .- 153997.

Cross Company, The.—152497, 152632.

Crucible Societe Anonyme.—153180, 153399.

Cryogenic Consultants Limited.—152802.

CSELT-Centro Studie Laboratori Telecommunicazioni S.P.A.—152773, 154447.

Cummins Engine Company, Inc.—152434, 152454, 152498, 152511, 152554, 152646, 152872, 152940, 152980, 153138, 153274, 153316, 153322, 153453, 153468, 153903, 153922, 153926, 154185, 154213, 154417, 154682, 154816, 154836, 154881.

---D----

Dr. Beck & Co. AG.-153879, 154556, 154846.

Dr. C. Otto & Comp. GMBH.—152515, 152657, 152680, 152766, 153268, 153277, 153281, 153298, 153317, 153318, 153338, 153339, 153569, 153570, 154157, 154482, 154886, 154889, 154973.

Dr. C. Otto Gesellschaft Fuer Kohledrukvergasung MBH.—153646.

DRG (UK) Ltd.—153202.

Dahson Park Industries Limited .-- 154919.

Dainichi-Nippon Cables Ltd.—154527.

Dana Corporation.—152565, 152905, 152941, 153699, 154276, 154362.

Daniel, K. K. V.-154007.

Danin, C .-- 153561.

Das, R. N.—153219, 153412.

Das, S.-153697.

Dasgupta, A. R.—153750.

Name & Appln. No.

_D (contd.)---

Dasgupta, B,--153320.

Dasgupta, S. P.—153539.

Dastidar, A. G.-154663, 154685.

Datta, A.—154745.

David Bowler & Sons Limited.—154890.

Davidson, R.-153911.

Davy Mckes AG.-154437, 154897.

Davy Mckse (London) Ltd.—153033, 153471, 153492, 153493, 153494, 154879.

Dayal, R.-153509, 153510, 153511.

Degussa Aktiengesellschaft.—154788.

Delle-Alsthom.—153788, 153792, 154069.

Denstsky Politekhnichesky Institut.-154974.

Denki Kagaku Kogyo Kabushiki Kaisha—152573, 153610, 154522.

Dennison Manufacturing Company. -154568.

Dent, H. R .-- 154961.

Deodhar, M. R .-- 154923.

Depew, T. N.—154247.

Deutsch Company Metal Components Division, The.—154416.

**Nutsche Gold-und Silber Scheideanstalt vormals Roessler.— 152665, 152666, 153151, 153152, 153835, 153836, 153837, 153838, 153839.

Deutsche Texaco A. G.—153745.

Devasenadhipathy D. H.-153866.

Dextee Metallurgical Pty. Ltd.-152888.

Dexter Corporation, The -153944.

Dhar, S. K .-- 154650.

Diamond Engineering Corpn.—153795, 153796.

Diamond Shamrock Corpn.—152512, 152967, 152982, 153404.

Director, All India Institute of Medical Sciences, The.— 153330, 153331, 153332, 153635.

Director, Central Council for Research In Ayurveda and Siddha, The.—152863.

Director General, Cement Research Institute of India, The,—152420, 153000, 153001, 153002.

Director General, Research Designs & Standard Organisation, Ministry of Railways.—153752, 154082, 154175, 154283, 154308.

Display Systems.—154712.

Dnepropertrovsky Khimiko-Tekunologichesky Institut Iment F. S. Dzerzhinskogo.—152921, 153323.

Dnepropetrovsky Truboprokatny Zavod Imeni V. I. Lenins.—152438.

Dneprodzerzhinsky Vegonostroitelny Zavod Imeni Gazety 'PRAVDA'.—152452,

Dobson Park Industries Ltd.—152972, 154411.

Donetsky Nauchno-Issledovatelsky Institut Chernol Metallurgii.—152890, 153443, 153582.

Donetsky Politekhnichesky Institut.—154974.

Dorr—Oliver Incorporated.—152474, 152544, 152711, 153184, 153396, 154386, 154687, 155014.

Dow Chemical Company, The.—152627, 153204, 153664, 154360, 154868, 154869.

Dravo Corpn,—152954.

--D (contd.)--

Dresser Europe S. A.-154646.

Dresser Industries Inc.—152608, 153179, 153586, 153806, 154285, 154845.

Dreyer, N. T .- 154292.

Drozdova, G. P.-152735.

Dunlop India Ltd.-153194.

Dunlop Limited.-154080, 155019.

Dunn, E. L.-155100.

Duracell International Inc.-153252, 153324, 153325, 153326.

Dutton, E. I .-- 154932.

Dynacrast & Widmann Aktiengesellschaft,-153655.

Dynacraft Machine Company.—154320.

Dynamit Nobel Aktiengesellschaft.—152932, 153472, 153619, 154090, 154536.

Dyno Industrier A. S.—154309, 154754.

E

E. I. Du Pont De Nemours And Company.—152674, 152693, 153701, 153947, 154470, 154543.

E. N. I. Ente Nazionele Idrocarburi.—152453,154578, 155072,

E. R. Squibb & Sons, Inc.—152712.

Eastern Scales Pvt. Ltd.-154818.

Eaton Corporation .- 153963.

Eberil, V. I.-152951.

Edward L. Bataman Limited.-153805.

Edwin, V. E.—152392.

Egyesult Izzolampa Es Villamassagi RT.-154885.

Egyt Gyogyezervegyeszeti Gyar.—154091.

Eimco (Great Britain) Ltd.—153176.

Eirich, H .- 152970.

Eirich, P.-152970.

Birich, W .- 152970.

Eirich, P .- 152970.

Eirich, W.--152970.

Ekman, C. O. A .- 152738.

Elkem A/s.-152488, 153615, 153882, 154030, 154273.

Elliott Brothers (London) Ltd.—152994.

Elliott, F.-153674.

Elliott, G.—153674.

Elliott, S .- 153674.

1-mhart Industries, Inc.-154943, 154956.

Emmett, L. C. R.-154513.

Empresa Nacional Del Alumino, S. A. (ENDASA).—153192. Empresa Nacional Siderurgica S. A. (Ensidesa).—152864.

Energiagazdalkodasi Intezet.—152975.

Energy Sciences Pertners Ltd.-154683.

Enertec .- 152449.

English Electric Company Ltd., The,-154727.

Enigma N. V -153459.

Environmental Elements Corporation.—154115.

Erani, H. K .-- 154781.

Ernst Schmitthelm, Federn-und Metallwaren-Fabrik.-153113.

Name & Appln. No.

—E (contd.)—

Escher Wyss Limited.—154985.

Etablissements Nativelle.--154559.

Etat Français.—153041, 154432.

Etchicon Inc.—154587.

Ethicon Inc.—154839.

Euteco Impianti S.p.A.—153278, 153315, 153345, 153611, 4 153915, 154681.

Eutectic Corpn.—153280, 153739.

Exacta-Maschinanbau Schmidt & Hotteler K. G .- 152597.

Extrados Company Limited.—152710.

Exxon Research and Engineering Co.—153421, 153466, 154509.

F

F. Hoffmann-La Roche & Co. Aktiengesellschaft.—152637, 153082.

F. L. Saidth & Co. A/S.—153032, 153891, 154099, 154143, 154479, 154653.

FMC Corporation.—154326.

Fabcon Incorporated.—154927.

Fairfield Manufacturing Company, Inc.-154828.

Fatesaria, N. K .- 152748.

Faton Corporation -- 154490.

Fedders Lloyd Corporation Pvt. Ltd.—153767.

Fertilizer (Planning & Development) India Ltd., The.—152675, 152911, 153346, 153695, 153735, 154220.

Festo-Maschinenfabrik Gottlieb Stoll.-153195.

Fiat Auto S. P. A .- 153455.

Field, I. K .- 152986.

Finkfishtein, I. B.—154787.

Fingates Ltd.-153043.

Finley, W. T.—154549.

Fischar, P. A .- 154201, 152499. -

Fisin, V. I.—152951.

Fison Ltd.—153229.

Fives-Cail Babcock.—152606, 153535, 153901.

Fiziko-Tekhnichesky Institut Akademii Nauk Belorusskoi SSR, —153656, 154804.

Fletcher Sutcliffe Wild Limited.—152444, 152998.

Flowcon Cy.—152973.

Fluconcoat, Ltd.—154739.

Formento De Inversioners Industriales S.A.—154424.

Formica Corporation.—152536, 154679.

Foseco Trading A.G.—154588.

Forsroc International Ltd.—153286, 154996.

Foster Wheeler Ltd.—154518.

Franz Plasser Bahrbaumaschinen-Industriogesellschaft M.B.H. —152522, 152560, 152922, 152931, 153959, 154261, 154967.

Freese, U.E.-154678.

Freyssinet International (Stup) .- 154503.

Fried Krupp Gesellschaft Mit Beschrankter Haftung.—154198 Furma Manufacturing Co. Pty. Ltd.—152977, 154829.

G

O. B. Tools & Components Exports Ltd.-154834.

G. D. Societa Per Azioni.—152635, 152719, 152850, 153370, 154224, 154284, 154376, 154731, 154750, 154933, 134934.

-G (contd.)--

OKN Sankey Ltd.—154847.

Gambir, S. R.—152840.

Gandhi, K. K. S.—153207, 153203, 154959.

Gandhi, K. S .- 154022.

Gandhi, S. V .- 153254.

Gangahanumaiah, P.-153833.

Gasjuk, L. A.-154430.

Gas Sweetener, Inc.-153580.

Gatti, M .-- 154140.

Gavriushenko, N. S.-152735.

Gebruder Loepfe AG.-152731.

Generale Des Engrasis S. A.—153702.

eneral Electric Company.—152702, 152734, 152876, 153075, 153134, 153537, 153567, 153617, 153720, 154216, General 154864, 155060.

General Electric Company Limited, The .- 152852, 153239, 154286, 154305, 154698.

General Industrial Controls Pvt. Ltd.—153998.

General Signal Corpn.—153186.

General Tire & Rubber Company, The.—152849, 153779. 154701, 154853.

Geophysical Company of Norway A. S .-- 154225.

Gerin, M .- 154155, 154156.

Gersan 'Establishment.—152600, 154574, 154575, 154815,

Ghosh, B. B. (Dr.).—153039.

Ghosh, P. K.-153848.

Ghosh, S. (Dr.).-153413.

Giammarco, G.-155053.

Giammarco, P.-155053.

Gillette Company, The.—155035.

GIZA S.p.A.-152493.

Glacier Metal Co., Ltd., The .- 153285.

Glaxo Group Ltd.-154870.

Globe-Union Inc.-153927.

Godrej Soaps Ltd.-155075.

Goepp, R. A.-154678.

Goodyear Tire and Rubber Co., The .- 153554, 154762, 154931.

Gosudarstvennyi Nautschno-Issledovatelsky Projectnyi Institut Asotnoi Promyschlennosti I produktow Organitscheskogo Sintesa.—154344.

Gosudarstvenny Nauchno-Issledovstelsky Energetichiesky Institut Imeni G. M. krazkiahanovskogo.—153148.

Gosudarstvenny Nauchno-Issledovatelsky Institut Tsvetnykh "Gnitsvetmet".--152065. Metallow

Proektnokonstruktorsky I Experimentalny ogatiteInomu Oborudovaniju- "Gippomasho-Gosudarstvenny Institut Po obogatitelnomu Oborudovaniju-bogaschenie".—154801.

2-277 G_I/88

Name & Appln. No.

—G (contd.)—

Gosudarstvenny Proekyny I Nauchno-Issledoyatelsky Institut Nikelevokovaltovo-I Olovyannoi Promyshlennostileningrad.--153193.

Gosudarstvenny Vsesojuzny Institut Po Proektirovaniju Predpriyatv Koxkhimicheskoi Promyshlennosti (Gipro-Predpriyaty K kok).—152452.

Goswami, A. P. (Dr.) -154017, 154081.

Gould Inc.—152742, 152961, 153064, 153612, 153743, 153747, 154278, 154456.

Goyle, N. K.--153798.

Graf & Cie Ag.—153445, 154354.

Great Lakes Carbon Corpn.—153130.

Green Cross Corpn., The .- 153488, 153855.

Griffin, P. J.-154440.

Gritskov, I. V.-154430, 154787.

Grupo Industrial Alfa, S. A .- 153109.

Gsadiali, K.—152839.

Guigan, J .-- 154925.

Gulf Oil Corpn,-153638.

Gulhane, V. N.-152585.

Gupta, B. K .-- 154671.

Gupta, J. P. (Dr).-153046.

Gupta, K. K .~ -154563.

Gupta, R. P.—154217.

Gupta, R. R.—152616.

Gupta, S .-- 153831.

Gupta, S. D.—153952.

Gupta, S. R.—154409, 154770.

Gupta, V. P.-153828.

Gurudutt, M.-155039.

Gutehoffunungshutte Sterkrade Aktiengesellschaft.—152502, 152510, 153520, 153840.

—H—

H & R Johnson-Richards Tiles Ltd.-152899.

Halcon Research and Development Corporation,-154336.

Haldor Topsoe A/S.-154988, 154989.

Halifax Tool Company Ltd.-154159.

Hambro Machinery Limited .- 152721.

Hamburger Stahlwerke GmbH.--154905.

Hamon-Sobelco Societe Anonyme,-153289.

Hamre, 1.-154292.

Hamworthy Engineering Ltd,-153722.

Hanlet, J. M.-153085, 154798.

Harbanslal Malnhotra & Sons Ltd,—154842, 154843.

Hardigg Industries, Inc.-153777.

Harlacher AG.-154469.

Hartmann & Braun Aktiengesellschaft .- 154558, 154857.

Haslam, J. H.-152677.

-H (contd.)-

Hazemeijer B. V.-152426.

Hazra, S .-- 152770.

Hegler, W.-152408.

Heinen, H. J.-154098.

Hein, Lehmann Aktiengesellschaft.-155093, 153314.

Helix Technology Corporation.—153700, 153893, 154541.

Hemex Inc.--152820.

Henk, P. O.-152499, 154201.

Henrich Kopp GMBH & Co. KG.-152622.

Herseus Elektroden Gmbh.—153576.

Hercofina.—153154, 153618.

Hermaun Hemschieidt Haschinen Fabrik Gmbh & Co.--153894, 154680.

Herrin, M. B.-153967.

Hindustan Antibiotics Limited.-155050, 155051.

Hindustan Ciba Geigy Ltd.—153029, 154711, 155047.

Hindustan Insecticides Limited.—154075, 154303.

Hindustan Lever Ltd.—152715, 152716, 152722, 152832, 152833, 153988, 153989, 153990, 153991, 153992, 154319, 154705, 154772, 154776, 154777, 154859, 155041, 155042, 155044, 155045, 155073, 155097, 155098, 155099.

Hitachi Construction Machinery Co., Ltd.-154141.

Hitachi Ltd.---152933, 152962, 152963, 152978, 152990, 152991, 155028, 153174, 153210, 153215, 153342, 153408, 153412, 153452, 153476, 153481, 153490, 153496, 153723, 154168, 154208, 154218, 154273, 154492, 154797.

Hitachi Microcomputer Engineering Ltd.-154168.

Hoechst Aktiengasellschaft.—152456. 152496. 152531. 152629, 152709, 152725, 152753, 152755, 152786, 152897. 153568. 153676, 153853, 153956, 154195, 154434, 154889. 154590, 154643, 154872, 154873, 154874, 154951, 154958.

Hoechst Pharmaceuticals Limited -153996.

Hokkaido Sugar Co., Ltd.-152914.

Hollandse Signaalapparaten B. V .-- 153713.

Hollingsworth Gmbh.-153187, 153188.

Hollingsworth, J. D.-153053.

Holter, H .- 153309.

Holzer, W. (Ing.).-152631.

Hopkins, P. R .- 153051.

Howden Equipment Services Pty. Itd.—154629.

Howe, D E.—154180.

Howe. P.-154180.

Hsech-Pen, L .- 154131.

Huang, Y .- 154124.

Hughes Aircraft Company.—154001.

Hukerikar. V. D .-- 153438.

Humphereys & Glasgow Ltd.—154241.

Hunt & Moscrop Ltd.—152886.

Halsa S. A.—152563, 153084.

...I.**..**

IMI Marston Ltd.-153553.

I. S. C. Smelting Limited,—152477, 153240, 154108. Imi Kynch Ltd.—154281. Name & Appln. No.

-I (contd.)-

Imperical Chemical Industries Limited.—153504, 153516, 153548, 153557, 153558, 153559, 153635, 153808, 154310, 154327, 155034.

Imperial Chemical Industries PLC.—154008, 154758, 154766, 154854, 155006, 155025, 155027.

Imperial Clevite Inc.-152727, 153887, 154810.

Imperial College of Science and Technology (London).—
152802.

India Pistons Limited.—155038.

Indian Council of Agricultural Research, The .- 153987.

Indian Drugs & Pharmaceuticals Ltd.—153687, 154313. 154314.

Indian Explosives Limited.—152443, 153042, 154051, 154196, 155091.

Indian Institute of Petroleum.-154004.

Indian Institute of Technology (Madras).-152468, 152484, 153434.

Indian Institute of Technology (Delhi).--153563, 153623, 153780.

Indian Jute Industries Research Association.—152805, 152988, 153693, 153932, 153961, 153977.

Indian Oil Corporation Ltd.—154713.

Indian Oxygen Limited.—152556, 152754.

Indian Petrochemicals Corpn. Ltd.-153247.

Indian Space Research Organisation .- 153437, 153872.

Industrial & Allied Sales (Pvt.) Ltd.—154548.

Industries Chemie Thoma GMBH & Co.-152686.

Industrie Face Standard SPA.—154965.

Inheed Pty. Ltd.-151885, 153222, 153521.

Institut De Recherches De La Siderurgié Française Irsid.— 154540, 155087.

Institut Elektrosvarki Imeni E. O. Patona Akademii Nauk Ukrainskoi SSR.—154258.

Institut Français Du Petrole.—152425, 154136, 154137, 154138, 154871,

Institut Matematikii Mekhaniki Akademii Nauk Azerbaidzhanskoi SSR.—154523.

Institut Merierex.—153760.

Institut Teplo I Massoobmena Imeni A. V. Lykov Akademii Nauk Belorusskoi SSR.—153650.

Institut Vysokikh Temperature Akademii Nauk SSSR.—153297, 154785.

Institute of Gas Technology.—153165, 153943, 154937.

Institute Po metaloznanis I Technologia Na metalite.— 152893, 153928, 154494.

Institute Po Obleklo I Textil.-154110.

Instytut Chemii Prezemysloowej.—154953.

Instytut Obrobki Plastyoznej.—152965, 154651.

Interoane Systems, Inc.--152668.

International Business Machines Corporation.—153802, 153811.

International Minerals Chemical Luxembourg Societe Anonyme.—154893.

International Standard Electric Corporation.—152651, 154498.

Internationella Siporex AB.-153785.

-I (contd.)-

Interox.—154014, 154920.

Interox Chemicals Limited.—153845, 153898.

Inventa Ag Fur Forschung Und Patentverwertung Zurich.—152572.

Ion Exchange (India) Limited .-- 155074.

IRAPA Vyvojovy A Pacionalizaonic Ustav Prumyslu Papiru A Gelulozy.—152528.

Ireco Chemicals.—153261, 153691, 154048, 154455, 154799. Isafiex Ag.—153454.

Isahak, K. K. P .-- 152473.

Ishar Dass Mahajan & Sons.-153786, 153787, 154330.

Ishizuka, H.—152783, 153352.

Isover Saint-Gobain.—152518, 153203, 154259, 154786.

Italtel Societa Italiana Tlecomunicazioni S.P.A.-152744.

Ivanov, G. M.—153284.

Ivanova, L. V.-154430, 154787.

__J__

J. H. Fenner & Co. Limited.—152652, 154824.

K. J. Roy McDermott & Co., Inc.—153598.

Jackson, P .-- 152692.

Jacob, K. A .-- 153629.

Jacob Manufacturing Co., The.—152870, 152881, 153450, 153946.

Jain, A. K .- 154531.

Jain, D. K .- 154531.

Jain, J. K .-- 154531.

Jain, R. K.-154531.

Jain. S .- 152992.

Jain, S. K.—154924.

James, A. P. P .- 153126.

James Mackie & Sons Limited.—154100, 154448.

Jaya Hind Industries Limited .- 152619.

Jay Engineering Works Ltd., The.-153397, 154339.

Jervis B. Webb International Company.--153778.

Jeumont-Schneider.-154480.

Jin An Industrial Co., Ltd.—154525, 154883.

John D Hollingsworth on Wheels, Inc, -- 153789.

Johnson, A. S. (Jr.).—152765, 153645, 152804, 154746.

Johnson Corporation, The .- 152713.

Johnson & Johnson.—153529, 154121, 154935.

Johnson & Johnson Baby Products Co.--153525.

Johnson & Johnson Products Inc.-153283.

Johnson Matthey & Co. Limited .- 152853.

Jonas Woodhead Limited .- 154662.

Joshi, S. K.—153993.

Jothi, M. S.—153833.

—K—

K. K. Dani Consultants & Engineers Private Ltd,—152399. Kabelmetal Electro GMBH.—152523, 153905, 154268.

Kabelschlepp Gmbh.-152929, 152930.

Kaganovsky I. 1.-152810, 154827.

Kalina, A. I .- 153262.

Kamarudin, M. A. W.-155037.

Name & Appln. No.

-K (contd.)-

Kamat, N. G.-152607, 152699.

Kandasamy, M.—152591.

Kandaswamy, N. C.—152586.

Kanegafuchi Kagakuo Kogyo Kabushiki Kaisha.—153340.

Kanstsu Kogyo Kabushiki Kaisha.-152697, 153290.

Kappelman, E.--154948.

Kapoor, S. (Mrs.).-154289.

Karagandinsky Metallurgichesky Kombinat.-152890, 153443.

Karl Richtberg kg.—153732.

Karmakar, B .- 152875.

Karnik, M. D .- 152400.

Karthikeyan, D. R .- 153866.

Kashiwayama, S.-153038.

Kejriwal, U .- 153265, 153266.

Kelkar, B. D .-- 154923.

Kelkar, H. G.-153327.

Kelkar, P. G .- 152401.

Kennecott Copper Corporation.—154812.

Kennedy Van Saun Corporation.—154226.

Kenrich Petrochemicals Inc.-153047.

Kerilea International Limited.—154963.

Khaitan Fans Private Limited .-- 153727.

Khan, C.Y.S .-- 152843.

Kher, R.N.--154723.

Khetan, R. K .-- 154710.

Khmelov V. V.-153284.

Khosla, K. G.—153431, 153432, 153433, 154293, 154294.

Kiepe Flektrik GMBH .-- 154833.

Kievskoe Nauchno Prozivodstvennoe Obiedihenie "Analitpribor".---153614.

Kinariwala, N. P.-154549.

Kinariwala, S. N.-154015, 154016.

Kins Developments Ltd.—154199.

Kirloskar Brothers Ltd.—154365, 154366, 154779.

Kishor Pumps Pvt. Ltd.-153251,

Kitasato Kenkyusho,-152883,

Klay, E.-153024.

Klein, Schanzlin & Becker AG.—152411, 153142, 153651, 155054.

Klockuer-Humboldt-Deutz 154848, 155015.

Aktiengesellschaft.—154096,

Knight, B. J .- 153531.

Knight, D. L.-153531.

Knowles, A. H.-154844.

Knutson, R. A .- 152625.

Kobe Steel Ltd.—152942, 153271, 153716, 153948.

Kombinat Urzadzen Mechanicznych "Bumar-Labedy".— 153217, 154040, 154161.

Kontiki Chemicals & Pharmaceuticals Pvt. 1.td.—154070, 154863.

Koorevaar, A.--154950.

Kopelnia Wegla Kamiennego "Jastrzebie".-153600.

Korea Advanced Institute of Science and Technology, 155004.

-K (contd.)-

Korf Engineering GMBH.-155081.

Kraftwerk Union Aktiengesellschaft.—152441, 152594, 152687, 154042, 154837, 154908, 154942.

Krasnoborodko, A. F.—154787.

Krauss-Maffei Ag.---153667.

Krings, J.—152534, 154088.

Krishnamurty, S. V .- 154333.

Krukovskaya, N. I.—152735.

Krupp-Koppers GMBH.—152792, 154474, 154987, 155063, 155094.

Krushnun, A. V .- 152448.

Kubasov, V. L .- 152951.

Kubota Ltd.-153670, 154659.

Kukota Ltd.-154611.

Kumar, N. K .- 153833.

Kumar, S .- 154531.

Kumiai Chemical Industry Co., Ltd.-155096.

-K (contd.)-

Kumimoto Iron Works Ltd.-154582.

Kupisiewicz, S.-153096.

Kureha Kagaku Kogyo Kabushiki Kaisha.—152812.

Kusters, E .- 153162.

Kuwait Institute for Scientific Research.—154866.

--L---

L & C Stein muller GMBH.-152822.

Laboratoire Roger Bellno.—154878.

Laboratori Prophin S. P. A .- 153746.

Lafarge Fondu International.—152460.

Laitram Corpu., The.—153420.

Languer, C. F.--153784, 153863.

Languer, J. B.—153784, 153863.

Laor, H .-- 154152.

Laporte Industries Limited.-152431.

Larsen & Toubro Limited.-153844.

Lashkova, M. I.—154787.

Lee, K. D.—152495, 153166,

Leesona Corporation.-154164.

Legrand S. A .- 153680.

Leningradskoe Prozvodstvennoe Elektromaschinstroitelnoe Obiedinenie "Flektrosila" Imeni.—154222.

S. M. Korova.-154446.

Leningradsky Gorny Institut Iment G. V. Plekhanova.— 154060, 155070.

Leningradsky Politekhnichesky Institut Imeni M. I. Kalinina.— 152636.

Leningradsky Tekhnologichesky Institut Tseltjuloznobumazhnoi Promyshlennosti.—154148, 154837.

Lentjes, T .-- 153974.

Licentia Patent-Verwaltungs GMBH.-153094.

Licinvest AG.—152943.

Liti, E. C .- 152959.

Li H. C .-- 1,52831.

Linde Aktiengessllschaft.—152672, 152706, 153137, 153444, 153448, 153709, 154251.

Name and Appln. No.

-L (contd.)-

Lindross, P. G. S .- 152639.

Lindstrom, R. E .- 154098.

Lintrend Developments (N.I.) Ltd.—153074.

Lipton Tea (India) Ltd.-152987.

Litex Electricals Pvt. Ltd.—154714.

Lock, T. S .-- 155092.

Lodge-Cottrell Ltd.--154850.

Loeb, M. P .-- 154678.

Loi Industrieofenanlages GMBH.-153603.

Lonza Ltd.—153071, 153294, 153657, 153564, 153900, 153904, 154978.

Lope, M. J. M,-154402.

Lubinets, V. A.—154452.

Lubrizol Corporation, The.—152732, 152910, 152939, 155881, 154056.

Lucas Industries Ltd.—152406, 152445, 152469, 152471, 152561, 152696, 152797, 152813, 152891, 153013, 153572, 153873, 153874, 154026, 154036, 154071, 154109, 154132, 154244, 154425, 154620, 154814, 154969, 155083.

Lucas Industries PLC.-154495.

Lucas—TVS Limited.—153867, 153868.

Lucig, I.—154979.

Lucien Ferraz & Cie. -154983.

Lummus Company, The.—154372.

Luossavaara-Kiirunavaara Aktiebolag.—153519, 154644 Luwa AG.—153267, 153939.

Lyng, B.-154292.

-M-

M. A. N. Maschinenfabrik Augsburg-Nurnberg Aktiengesells-chaft.—153040, 153524, 153658, 153659, 153660, 153661 153951, 154031, 154033, 154116, 155059.

MID Technology Corpn.--153449, 154936.

Macart Textiles (Machinery) Limited .- 153705.

Madura Coats Limited.-152579.

Magerle, K.--153473.

Magnesium Elektron Ltd.-153086.

Magyer Aluminiumipari Troszt.-152516,

Maneklal Scientific Research Foundation.—153813, 154775, 154858.

Mangood Corporation.-154381.

Manjeshwar, N. G. (Mrs.).—155039.

Manik, S. P. (Dr.).—153629.

Mannesmann Aktiengesellschaft.-153173,

Maplan Machinen-Und Technische Anlagen Planutound Fertiguns-Gesellschaft m.b.H.—154449.

Marathe, V. S.-153128.

Marchenlova, A. I.-152951,

Marley Company, The,—154903, 155084.

Mars Seal Pvt. Ltd.—154771, 155003.

Marshall Richards Barcron Ltd.-153542.

Martech International Inc.--154128.

Martings, B .- 155067.

Maruthia, S. M. A.—154504.

-M (contd.)-

Maschinenfabrik Fr. Niepmann GmbH & Co.--154782.

Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft.— 152403, 152752, 152806, 153196, 154909.

Maschinenfabrik Buckau R. Wolf A.G .- 153157.

Maschinenfabrik Reinhausen Gebruder Scheubeck Gmbh & Co. KG.—153245, 1532. 3, 153429, 153430.

Mascainenfabrik Ricter A.G.—152519, 152630, 152642, 152647, 152736, 152764, 152776, 152884, 152887, 153136, 153447, 153532, 154205, 153909, 153921, 153933, 153941, 154023, 154200, 154255, 154349, 154453, 154539, 154792, 154895.

Massey-ferguson-Perkins' Limited.—152604, 154910, 154966.

Masternet Ltd,-153216.

Masuda, Y .- 153896.

Mathivanan, P.—154367.

Mathur, J. P .-- 152945.

Nasoin, A. H. F.—152269.

McConn, J. L .- 153073.

Mc Collend, G. E .- 154098.

Mcgraw-Edison Company.-154024.

McIntire R. G.—154106,

McKinno, C .- 154189.

Mechanical Plastics Corpn.-153236.

Medicor Muvek.-152724.

Mehra, K. C. M.—153596.

Mehra, S. C. M .- 153596,

Mehta, H .-- 152880.

Molchior, J. F.-+154635.

Menon, P. V.-152716, 153120,

Mercoir, G.-152968.

Mercior, J .~- 152968.

Merslyakova, V. I.—154787.

Metafix,---153377.

Metal Box India Ltd.—154044, 154227, 154532.

Metal: Box Limited.—152621, 152653, 152900, 153012, 153475, 153726, 153890, 154114, 154162, 154203, 154533, 154633, 155057.

Metal Box p.l.c.—153966, 154524.

Metallegesellschaft A.G.—152530, 152825, 152960, 152949, 153139, 153147, 153296, 153275, 153712, 154252, 154359, 154428, 154616, 154825.

Metal Technology & Instrumentation, Inc.—154113.

Metripond Merleggyar.--153969.

Meyer, O .-- 153426.

Meyer, R.—153426.

Michelin & Cie.—152741, 152952, 154142.

Microfuels Inc.--154009,

Midre Corporation.—153078, 153080, 154035.

Miles Laboratories, Inc.--154695.

Miller, G. D.—154295, 154732.

Mining Supplies Limited.—152634, 154835.

Minnosota-Mining and Manufacturing Company—154085, 154677, 154811, 154964, 154984.

Minvielle, M. L. S. (Mrs.).—153269.

Mitsubishi Denki Kabushiki Kaisha.—153538, 153602, 154206, 154796.

Name & Appln. No.

—M (contd.)---

Mitsubishi Heavy Industries Ltd.-154508.

Mitsubshi Jukogyo Kabushiki Kaisha.—152904, 154807.

Mitsubishi Mining & Cement Co., Ltd., 154807.

Mitsubishi Rayon Co., Ltd.—154892,

Titsui Toatsu Chemicals Inc.—152760, 152936, 152937, 153149, 155237, 153675, 153897, 154210, 154422, 154511, 154813, 154849, 154954.

Littal, B.L .- 155002.

Miyascwa, K .-- 154636.

Mobil Oil Corpn.—153068, 153717, 154427, 154630.

Mobil Solar Energy Corporation.-154236.

Mobil Tyco Solar Energy Corpn. -153555, 153632, 153781, 154501.

Mocronair (Aerial) Ltd.-152996.

Mohenty, S.-154181.

Mogilevsky, E. M .- 154787.

Mokhov, N. F.-152951.

Moline of India Ltd.-154921, 154922.

Monsanto Co.—152685, 153308, 153354, 153446, 153458, 154529.

Montedison S.P.A.—152649, 152966, 153311, 153500, 153649, 154219, 154744, 154898, 154947.

Montefiore Hospital and Medical Centre.-152948.

Morcov, P.-154072.

N

N. Greening Ltd.—154183, 155064.

N. C. John & Sons Ltd.—154462.

NL Industries, Inc.--154398, 154400, 155017.

NRM Corporation.—152489, 153486, 153487, 154184, 154197, 154465.

N. V. Bekaert S. A.-155026.

N. V. Philips' Gloeilampenfabriken.—152427, 153501, 153654, 153942, 154622, 154624.

Nye Savanger Stall A/S .-- 155077.

Nadella.--154675, 155089.

Naik, C.K.-152716.

Nair, C.K.N.G.-153120.

Nair, P.B.—152473.

Naphtachimie S.A.—154738.

Narain, M.-154304.

Narasimhachary, K.-154243.

Narayanaperumai, K.-154368.

National Aeronautics and Space Administration.—152575.

National Engineering Research and Development Centre, The. —154567.

National Research Development Corpn.—153503, 153920, 155023.

National Steel Corporation.—153387.

Naushno-Proizvodstvennoe Obiedinenie Po Tekhnologii Mashinostroenia "Tsniitmash".—154223.

Nayagam, K. T .-- 154307.

Nayak, R.S. (Mrs.),—153869.

Nazir, C. P .- 154580.

N (Contd.)

Necchi S.P.A.—154179, 154724, 154725, 154755, 154763, 155021.

Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek.—153150.

Neiman S.A.-154970.

Nemetz, L.-152819.

Neumann Equipment Pty. Ltd.-154361.

Newport Pharmaceuticals International Inc.—153050, 153099.

New York University.—153348.

Nihon Number Plate Kabushiki Kaisha.-154691.

Nihon Servo Kabushiki Kaisha-153968, 154960.

Nijaguna, B.T. (Dr.).-152589.

Nikki Chemical Co., Ltd.—153076.

Nikopolsky Juzhno-Trubny Zavod.--152438.

Nilssone Industriemballage AB.—153480.

Nippon Carbide Kogyo Kabushiki Kaisha.—153411.

Nippon Steel Corporation.—152533, 152782.

Nippon Unicar Company Ltd.-154865.

Nippon Zeon Co., Ltd.—153409.

Nirlon Synthetic Fibres & Chemicals Ltd.-154774.

Nissan Chemical Industries Ltd.-152485, 155062.

Nittetsu Steel Drum Co., Ltd.-152442.

Nitto Boseki Co., Ltd.-154126.

Noren, S. A.-152867.

Norsk LCD A. S .-- 154262.

Norton Company,-154439, 154995,

Novex Foreign Trade Co., Ltd.—152660.

Novikov, V. I.—153284.

Noyes Bros., Pty., Limited.-153984.

0

O. G. E. C .- 154637.

O & K Orenstein & Koppel Aktiengesellschaft.—153366, 153593.

Oy Lohja AB.-152596.

Occidentel Research Corpn.-153665.

Office National Detudes Et De Recherches Aeros-Patiales (O. N. E. R. A.).—154952.

Okun D. I .- 152810, 154827.

Olinvon Industrial & Export Corporation.-153875.

Omark Australia Ltd.-153978.

Omark Industries, Inc.-152743.

Omnium Financier Aquitaine Pour L'Hygiene Et La Sante (Sanofi.—152492, 152974.

Omnium Pedegogique.-154968.

Oparin, V. S.-154430.

Oregon Etablissement Fur Patentverwertung.--152795.

Orissa Cement Limited .- 152775, 153457, 154228.

Orissa Industries Limited.—152455, 153264.

Oronzio De Nora Impianti Elettrochimici Spe.—153127, 153129, 154318, 154704, 154715.

Orszagos Koolaj Es Gazipari Troszt.—154544.

Osterrath, H.—154489.

Otisoa Industries, Ltd.-152924, 153386.

Otis Elevator Company.—153755, 153761, 153768, 153983.

Name & Appln. No.

O (Contd.)

Otto-Simon Carves Ltd.-154759.

Gutkompu Qy.-152747, 154127, 154272.

Oxysynthese.-154551.

Oy Fiskars AB.-154020.

P

P C U K Products Chimiques Ugine Kuhlmann.—153424, 153425, 153465, 153540, 154062, 154375, 155090.

PVBA Van Mullem En Zonen.—152759.

Pathen, R. C.-154242.

l'alitax Project Company.--154894.

Palitex Project Co. GMBH.—153083, 153934, 154484, 154584, 155078.

Pandit, S. D.-153248.

Fanje, K. G .- 152717.

Panthox & Burck Instituto Piochimico Italo-Svizzero S. P. A.—154560.

Faramount Glass Manufacturing Co., Ltd.-154126.

l'arimoo, P.—153183.

Patra, J. M .- 154257.

Parthasarathy, M.-153435.

Patel, S. B .-- 153062.

l'atelhold Patentverwertungs & Elektro-Holding AG.—152739.

Paterson, J. K .-- 153719.

Pathak, B. K .-- 154129.

Patil, S. A.—154323.

Pattabhi, V.-154585.

Paul, D .- 154172.

Paul Wurth S. A.-153362.

Paviovich, M.—154430.

Pavri, H. D. P .-- 153940.

rereslavsky Khimichesky Zadov.-154148.

Perkins & Powell Limited.—152704.

Fermelec Electrode Ltd.—152667, 153847.

i ersonel Products Company.—152798.

Peters, B. G.-154517.

Petrocarbon Developments Ltd,-153160.

Pfizer Corpn.—153045.

Pfizer Inc.—152416, 153300, 153305, 153306, 153307, 153685, 153822, 154073, 154371, 154408, 154554, 154557, 154693, 154694, 154767, 154918, 154926.

Pharmendustrie.—152828, 153355.

Phillips Petroleum Co.-153410.

Piesold, D. D. A .- 152915.

Pilkington P. E. Ltd.-154473.

Pittsburgh-Des Moines Steel Co.-153379.

Plessey Company P. L. C., The.—154789.

Piessey Handel Und Investments AG.-152794.

Plessey Overseas Ltd.—153080, 153889.

Poclain Hydraulics,-153783.

Folaroid Corporation.—154254, 155055.

Pocitex Project Company Gmbh.-153910.

Polysar Limited.—152429.

Polythetics, Inc.-153756.

Poromarev V. I .-- 152810.

-P (contd.)-

Pont-A-Mouson S.A.—153373, 153544, 154160, 154176, 154288, 154392, 154628, 154737, 154887, 154901.

Pook, M. J .-- 154170, 154325.

Popova, G. L .- 152735.

Pracdes Pty. Ltd.-153361.

Preciculture S. A.-154093.

Precision Valve Corporation.-153738.

Preformed Line Products Company.-154037.

Pressure Cookers & Appliances Ltd.—154769.

Priestly, R .- 154151,

Process Evaluation and Development Corporation,-153759.

Produits Chimiques Ugine Kuhlmann.—152548, 152549 153006, 153025, 153026, 153191, 153223, 153230.

Proizvodstvennoe Geologicheskoe Obiedinenie Tsentralnykh Raionov "Tsentrageologis.—154060, 154123, 155070.

Projects & Development India Ltd.-153088.

Q

Q. Corporation,-152925,

--R--

RJR Archer, Inc.-152673.

R&M Company.—154388, 154389, 154390.

Raftwerk Union Aktiengesellschaft.-152728.

Raha, A. C.—153757, 153758.

Raidaation Dynamics Inc.-153643.

Rai, D. V .- 153858.

Rajaram, B -153328, 153935.

Ram, B.—152540.

Raman, L. (Mrs.).—154369.

Raman, T. S. I .- 152470.

Ramani K. I .- 154461.

Ramaswamy, S. P.-152583, 152584.

Ramesh, K. S.-152577.

Rangaswami, M. (Mrs.).-154369.

Rank Organisation Ltd., The .- 153876.

Rao, C. S .- 153830.

Rao, Y. S.—153773, 153774,

Rasmussen, O. B.—153616.

Ravi, H. N.-152846.

Rayovac Corpn.-153495.

Reckittt & Colman Products Ltd.-154352.

Redifon Telecommunications Ltd.-154204.

Redlor Conveyors 1.td.-154743.

Redon Trust .-- 152714.

Reed, E. E .- 154247.

Reed, R. D.-154247.

Reeves Brothers, Inc.-153400.

Regal International Corporation.—154521.

Regent of the University of Minnesota.-152407.

Regio Nationale Des Usines Renault.-153689.

Reichhold Limited .- 152479.

Name & Appln. No.

-R (contd.)-

Renaud, G .- 154093.

Research & Development Centre For Iron & Steel, Steel Authority of India Ltd.—154357.

Research Director Cancer Research Institute Tata Memorial Center.—153031.

Rheinische Braunkohlerwerke Aktlengesellschaft.-154590.

Rhone-Poulens Industries.—151198.

Richter Gedeon Vegyeszeti Gyar RT.—152823, 152917, 153212, 153279, 153527, 153669, 154187.

Richter, W .-- 153238.

Rieter Deutschland GMBH .- 152514.

Rines, R. H.—154844.

Robert Bosch GMBH.-154194.

Robinson, R. A.—154117.

Roecar Holdings (Netherlands Antilles) N. V.-152550.

Rohm Gmbh.—153467, 154010, 154173; 154514, 154516.

Rohm and Haas Company.-154699.

Rolls-Royce Ltd.—154199.

Ronald Causer Nash Whitehouse .- 154911.

Rosemount Inc.-154802.

Rotork Controls Limited .- 152801, 153573.

Roy, S.-153958, 154364, 154464.

Ruggeri, A .-- 154391.

Ruhr Chemie Aktiengesellschaft.—152862. 153371, 154555.

Ruhrgas Aktiengesellschaft.-153603.

Russellmatthews Industries Limited.-152624.

Rutgerswerke Aktiengesellschaft .- 154133.

RUTI-TE STRAKE B. V.—152537, 154265.

Ryazansky Radiotekhnichesky Institut.-152424, 153707.

s

"S. A. Prb" Societe Anonyme,-154057, 154058.

SES, Incorporated.-152505, 152958, 153091.

SKF Steel Engineering Aktiebolag.—153276, 155076.

SKW Trostberg Aktiengesellschaft .- 153885.

S. R. M. Hydromekanik Aktiebolag.—153231, 153883.

Sz. Allami Eptioipari Vallalat.—154800.

Saarberg And Dr. C. Otto, Gesellschaft Fuer Kohledruckvehgasung Mbs.—153341, 153646.

Salete Garces, F .- 154343.

Saco Tanning Corporation .- 155005.

SAFTA S.P.A.-152593.

Saint-Gobain I.—153857.

Saint-Gobain Industries.—152402, 152490, 152701.

Saint-Gobaln Vitrage,-152791.

Salam, A .- 153831.

Salete-Garces, F.-153368, 153764.

Samuel, J.-154564.

Sandfire (Proprietary) Limited.-155007.

Sandoz Ltd.-154914.

Sandvik Akticbolag.-153606, 153482, 154583.

-S (Contd.)-

Sandvik Asia Ltd.-153439.

SANOFI.-152767, 152920, 153826.

Santos, J. C. D .-- 154189.

Santrade Ltd.-152983, 153097.

Saraswathi, B. N.-153833.

Saraswati Industrial Syndicate Limited .- 154079, 154520.

Sasol one (Proprietary), Limited.—152877.

Sastry, M. L. N .-- 152618.

Sataks Sngineering Co. Ltd.-152410, 154182.

Sathe, J. A.-152927, 153061, 152837.

Scal Societe De Conditionnements En Aluminium.-154438.

Scapa-Porritt Limited .--- 154279.

Schabert & Salzer Maschinenfabrik Aktiengesellschaft.— 152763.

Schafer A. W.-152768.

Schering Aktiengesellschaft.—152609, 153098, 153181, 153182, 153545, 154011, 154063, 154174, 154315.

Schloemann Siemag Aktiengesellschaft.-153398.

Schlotter, G .- 154975.

Schlumberger Limited.-152457.

Schlumberger Overseas S. A.—152777.

Schlumberger Technology Corpn.--153402.

Schoebrechts, J. J.-153096.

Schubert & Salzer Machinenfabrik Aktiengesellschaft.— 152558, 152803, 152871, 152879, 153518, 153937, 154112, 154202, 154211, 154353, 154423, 154429.

Schwihag Gesellschaft Fuer Elsenbahnoberbau MBH.— 153732, 154955.

Sciaky Bros. Inc.-154487, 154627.

Scott Bader Company Ltd.-154169.

Sealed Power Corpn.—153653, 153886.

Searle (India) Limited.—154703.

Secretary, National Council of Educational Research and Training, The.—153257, 153334, 153335.

Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The.—153825.

See. J. L. A .- 153269.

Seiko Giken Kabushiki Kaisha.-153172.

Seiler, A. J.—153571.

Semac Private Ltd.—155036.

Sen, K .-- 153692.

Sen, S. K.-154652.

Sen, S. N.—154721.

Serkov, A. T .- 154430.

Servo Corporation of America.—154103, 154104, 154356, 154899.

Seshagiri, D. (Mrs.).—153461, 153462.

Seshagiri, T .-- 153122.

Setafin S. A .-- 154445.

Severo-Zapadnoe Otdelenie Vaesojuznogo Gosudarstvennogo Proetkno-Izvskatelskogo I Nauchno-Issaedo-vatelskogo Instituta Energeticheskikh Sistem I Elektricheskikh Setel.—152636, 154123.

Shah, C. M.-152508.

Name and Appln. No.

—S (Contd.)—

Shah Ganite Pvt. Ltd.-152926,

Shalimar Industries Pvt. Ltd.—154806.

Sharma, V. N.—154406.

Shashkova, V. T.-152735.

Shell Internationale Research Maataschappij B. V.—152405, 152613, 152614, 152618, 152641, 152671.

Shell Internationale Research Maatchappij B. V.—152816, 152847, 152848, 153513, 153628, 153671, 153718, 153737, 153816, 153827, 154013, 154191, 154399, 154530, 154696, 154877.

Sheppard, J.—153865.

Shetty, R. D.—152620.

Shidham, V. B. (Dr.).--153009.

Shimko, I. G.-154787.

Shin Etsu Chemical Co. Ltd.—152733, 152984, 153574,

Showa Rhodia Chemicals K. K.—154468.

Shri Gaur Dham Trust (Regd.).—153753.

Shri Ram Institute for Industrial Research.—154852.

Sibirsky Metallurgichesky Institut Imeni Sergo Ordzhonikidze.—153734.

Sibit S. P. A .- 154163.

Sidhwa, P. D. S.—152841.

Sid Richardson Carbon & Gasoline Co.-152503, 153474, 153577.

Siemens Aktiengesellschaft.—152404, 152436, 152461, 152462, 152506, 152535, 152571, 152574, 152684, 152690, 152746, 152808, 152817, 152916, 152934, 152957, 153036, 153044, 153349, 153405, 153469, 153566, 153641, 153721, 153850, 154043, 154045, 154101, 154120, 154167, 154264, 154491, 154790, 154906, 154980, 155068.

Siemens-Albis Aktiengesellschaft.-152481,

Signode Corporation .- 154240.

Sig Societe Industrille Suisse.—153809.

Silver Seiko Ltd.—154267.

Sinha, N. (Dr.).—153597.

Singh, B.—152821, 154269, 154741.

Singh, H.—154172.

Singh. M.--152654.

Singh, R.--152422, 153019.

Singh, S.—152540, 152576, 153858, 153918,

Sinniah, N. S. V.-154005.

Sinroja, P. A .-- 152398.

Sintermetallwerk Krebsoce Gmbh.-153344.

Sintokogio Ltd.—152826.

Sir James Farmer Norton & Co.—154348.

Sir Padampat Research Centre.—153769.

Sirajuddin, M.—152551.

Siren, M. J.—153374.

Sitanov, V. S.—152951,

Skefko India Bearing Company Limited.—152834.

Skega Aktiebolag.—153282.

Sklyarov, A. T .-- 152951.

Skoda Knocernovy Podnik.—153856, 154488,

Skvortsova, I. F.--154787.

Sloan-Kettering Institute for Cancer Research.—153050, 153099.

Small, S. H.—153530.

—S (Contd.)—

Small Tools Manufacturing Company of India Limited, The.—153970, 153971, 153972.

Smick, R. H .- 152529.

Smithkline Beckman Corpn.--152421, 152859, 154373.

Smiths Industries Public Ltd. Co.-153363.

Snamprogetti S.p.A.—153408, 153456, 153579, 153584, 153605, 154032, 154478, 154497, 154572, 154581, 154632, 155058.

Snia Viscossa S. P. A.—153907.

Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S. P. A.—153945, 154215, 154471.

Snia Viscosa S. P. A. Societa Nazionale Industria Applicazioni Viscosa,—153035.

Socared SA.—154573.

Societe Anonyme Dite Societe Nationale Industrielle Aerospatiale.—153698, 154952.

Societe Cem-Compagnie Electromecanique & cie S. N. C.—153703, 153704, 153710.

Societo Chimique Des Charbonnages.—153514, 154412.

Societe Chimique Des Charbonnages S. A .-- 154986.

Societe De Paris Et Rhone.—153007, 153356, 153776, 154302.

Societe Des Electrodes Et. Refractaires Savoie (Sers).—152708.

Societe-Des Produits Nestle S. A.-154041.

Societ D' Etudes De Machines Thermiques S. E. M. T.— 153381, 153625, 153791, 153793.

Societe D' Etudes De Products Chimiques.—153791, 154066, 1540671, 154370, 154407, 154499.

Societe D'etudes Scientifiques Et Industrielles De L'ile-De-France.—153037.

Societe Dite Societe Job Anciens Etablissements Bardou Job Et Paulilhac.—153016.

Societe Française D'Electrome-Tallurgie-Sorifrem.--152626, 154193.

Societe Franco-Belge Des Laminoirs Et Trefleries D'anvers "LAMITREF".—153556.

Societe Generale Des Eaux Minerales De Vittel,-154395.

Societe Internationale De Mecanique Industrielle S.A.—153003.

Societe Lab .- 153607, 154350.

Societe Miniere Et Metallurgique De Renarroya S. A.-152432.

Societe Nationale Des Pouridres Et Explosives.—153422.

Societe Nationale Detude Et De Construction DE Moteurs D'aviation (S. N. F. C. M. A.).—155009.

Societe Nationale Elf Aquitaine.—154328, 154329.

Societe Nationale Industrielle Aerospatiale.-153698, 154324.

Societe Trasen.-152815.

Solanki, G. C .-- 153255.

Solar Holdings S.A.--152610.

Solaco Basel AG .- 154851.

Solvay & Cie.--153562.

Sonti, G.-154333.

Soonawala, R. P.—154565, 154571.

Source Technology, Inc.-154025.

3—277 GI /88

Name & Appln, No.

—S (Contd.)—

South Wales Switchagear Limited.—154688, 154689.

Fouthwise Co.—152471, 152475, 153385, 153512, 153591, 154734.

'nendelfabrik Sussen Schurr, Stahlecker & Grill G.M.B.H.— 154768.

Speno International S. A.—152543.

Sperry Corporation.—152662, 153350, 153533, 153741, 153744, 154472, 154463, 154493, 154880, 154912, 154913, 154915.

Epetsialnoe Konstruktorskoe Bjuro Samokhodnogo Gornogo oborudovania.—152830.

Spirax Sarco Ltd.-153624.

"port Australia (Export) Pty. Ltd.—153560.

Gaza.—152532, 152694, 153884, 154246, 154649, 154831.

Srivastava, S. C.-153652.

Staedtler & UHL.-154105.

Stahrecker, F .- 154780.

Stahl, W. (Dr.) .-- 153843.

Statiaco Enterprises Pvt. Ltd.--153418, 153419.

Stamicarbon B. V.—152524, 152656, 152729, 152757, 152758, 152909, 152912, 152918, 153069, 153077, 153310, 153672, 153973, 154019, 154049, 154059, 154475, 154476, 154655, 154656, 154657, 154820.

Stanadyne Inc.-152494, 152811, 152947, 154528.

Sandard Car Truck Company.—154793.

"tandard Oil Co.--153463, 153684.

Fondard Oil Company, The.—153393, 153986, 154282, 155018, 155033.

Stark, V .- 152682, 154165, 154166.

Starlinger & Co., Gesellschaft MBH.-154441.

Stauffer Chemical Co.—152827, 152935, 153155, 154535, 154642, 154971.

Steel Authority of India Ltd.-152878, 152894, 153211.

Steele, D. E.-153406.

Stein Industrie.—153369.

Stel Hoesch Werke Aktiengesellschaft.-152567.

Sterling Armament Company Limited .- 154686.

Stolyar, A. D.—152735.

Stone & Webster Engineering Corpn.-154591.

Stoping Aktiengesellschaft,-154596.

Stubberseield, E. M.-154459.

Subramoniam, J. P.—153121.

Industries Ltd.—154773.

Sulzer Brothers Ltd.—153604, 153736, 154002, 154404, 154507, 154508, 154638.

Subzer-Ruti Machinery Works Ltd.—152683, 153976.

Sumitomo Chemical Co. Ltd.—152895, 152989, 153114, 153209, 153694, 153740, 154832.

Semitomo Electric Industries Ltd.-154542.

Camitomo Metal Industries, Ltd.—152953.

in Chemical Corporation.—153914.

Suncor Inc.-152431, 153273, 153622, 153565.

Sun Oil Co.--152896, 153133.

Sunkist Growers Inc.—153189.

Suntech Inc.—154592.

-S (Contd.)--

Surgikos, Inc.-155065.

Survival Technology Inc .- 154245.

Svenska Rotor Maskiner Aktiebolag.-153005.

Swami, V. K .- 153833.

Swan Electric Industries.-154068.

Swanson, R. (Dr.),—153270, 154419, 155056.

Synair Corporation.-153375.

Syntex Corporation.—152737.

Т

TBA Industrial Products Ltd.—153395.

Traw Inc.-153159, 154027, 154028.

T. T. (Private) Limited.-152466.

Takata Kojyo Co., Ltd.-153470.

Tanabe Seiyaku Co., Ltd.-154144.

Tapadia, S. B.—153249.

Taprogge Gesellschaft M.B.H.—152913.

Tarantino, E. R. J.-153085.

Tasgaonkar, P. G. (Mrs.) .- 154291, 154378.

Tatabanyai Szenbanyak.-154207.

Tata Engineering And Locomotive Company Limited,—152509, 152928.

Tata Iron & Steel Company Limited. The.—152778, 152779. Technofast, Inc.—154658.

Technology International Incorporated.-154866.

Techno Plast Industries.-155000.

Tecumseh Products Co.-153081, 154147, 154742, 154939.

Tegral Technology Ltd.-153742.

Teledyne Industries Inc.-154562.

Telefonaktiebolaget L. M. Ericsson,-153004, 154500,

Tel Graphic Design/Industrial Design/Public Relations B. V.—153292.

Tesa S. A .- 152993.

Teske, L.-152908, 154840.

Tetra Pak Development SA.—154867.

Tetra Pak International AB.-154938.

Texaco Development Corpn.-152412, 154443, 154595.

Texas, Alkyls, Inc.-152430, 153272, 154192.

Textile & Allied Industries Research Organisation, The.—152835, 152836.

Thaikattil, J. (Dr.).—154717, 154718, 154719.

Thames Television Ltd.-154204.

Thedharamsi Morarji Chemical Co., Ltd.—154778.

Thermax Pvt. Ltd.-153440, 153517, 155001.

Thermo Controls.—153427, 153428.

Thomson-Brandt.—154401, 154505, 154506.

Thomson-CSF.--153119.

Tian, K .- 152889.

Timken Co., The .- 153156.

Torsiflex Limited .- 155022.

Toshin Kogoyo Co., Ltd.—152903, 152969, 153668.

Toshniwal Instruments, Madras,—152845.

Name & Appln. No.

-T (Contd.)-

Touze, F.-153696.

Tovim, I.--154311.

Tower Soaffolding (Bristol) Ltd.-153642.

Tox-Dubel-Werk R. W. Heckhausen GMBH & Co. KG.--154808.

Toyama Chemical Co., Ltd.—154829, 154838, 154841.

Toyo Engineering Corporation.—152670, 152760, 153149, 153237, 153372, 153575, 153892, 153897, 154511, 154849, 154954.

Tracel Tirfor India Private Limited .- 152807.

Tractel, S. A .- 152865.

Trans Med Corporation.—152599.

Trefilunion.—153377.

Trest Leningradorgstroi Glavleningradstroya.—154102, 154654.

True Temper Railway Appliances, Inc.—152851.

Trutzschler GMBH & Co., KG.-153912, 154981.

Tselinogradsky Inzhenerno-Stroitelny Institut.—154882.

Tsentralnce Konstruktorskoe Bjuro po Modernizatsii Deistvujuschego Oborudovania Elektorstantsy Glavenergo-Remonta. —154034.

Tsentralny Institut Tipovogo Proektirovania.—154148.

Tsukishima Kikai Co., Ltd.—154511.

Tsybin, L. Y .- 152951.

Tungabhadra Steel Products Limited.—153871.

Tverskoi, D. N.-154452.

Ħ

Ube Industries Ltd.-154274, 154442.

Uop Inc.—152866, 153232, 153234, 153329, 153754, 153770, 153782, 153985, 154761, 155008.

UKI Corporation.—152868, 153365, 153391, 153502.

USS Engineers and Consultants, Inc.—153103, 155012.

Ugine Aciers.—153729, 154747.

Uhlmann, J. K. V.-154517.

Ukrainskoe Nauchno-Proizvodstvennoe Obiedin nie Tselljulozno-Bumazh oi Promyshlennosti (Ukrnpobumprom).— 154837.

Unichem Laboratories Limited.—152352.

Unidistributors Private Limited.-153799.

Unie Van Kunstmestfabrieken B. V.—152562, 153200, 153218.

Unilever Limited.—152780.

Union Carbide Corporation.—152450, 152491, 152790, 152892, 153048, 153049, 153224, 153244, 153376, 153387, 153390, 153581, 153626, 153627, 153706, 153772, 153888, 154061, 154074, 154118, 154253, 154298, 154337, 154340, 154393, 154420, 154537, 154625, 154822, 154876, 154990, 154993, 155024.

Union Carbide India Limited.—152633, 152645, 153168, 153169, 153608, 154421, 154805, 154976.

Uniroyal, Inc.--153980.

Unisearch Limited.—152818, 154046, 154055.

Unisystems Pvt. Ltd.-153110.

United Catalyst, Inc,-155079.

-U (Contd.)-

United States of America, Represented by the Secretary, U. S. Department of Commerce, National Technical Information Service, The.—153724.

United Technologies .- 152842.

United Technologies Corpn.—153214, 153477, 154084, 154454, 154485, 154615, 154875.

Unit Rig & Equipment Co.—153177, 153389.

University of Auckland.—152950.

University of South Carolina.-154706.

University of Waterloo.—153549.

Uniweld Inc.-153066.

Unshudb Company Ltd.-154186.

Upjohn Company, The.—152487, 152663, 154944.

Upravlenie Po Proektiroveniju Zhilischno-Grazhdanskogo I Kommunalnogo Stroitelstva "Mosproekt-I".—154451.

Uralsky Nauchno-Issledovatelsky Institut Chernykh Metallov. —152433.

Uralsky Politekhniohesky Institut Imeni S. M. Kirova.— 154122, 154791.

Usha Automobile & Engineering Ltd.-152527, 152749.

Usinor-Union Side-Rugique Du Nord Et De les De La France.
—152626.

--V--

VDO Adolf Schindling AG.—152659, 152769, 153092, 154150, 154249.

VMEI "Lenin".—153957.

VTM Handel Wybranietz GMBH & Co.-154345, 154346.

Vahlbrauk, K. H .-- 153260.

Vaidya, A.—153253.

Valico P. V. B. A.—152451, 153526.

Vallouree S. A.-153730, 155013.

Vandervell Products Ltd.—154342.

Vanton Pumps (India) Private Limited .- 154006.

Vanucoi, P.-154391.

Vapor Corpn.--153178.

Varadranjan, T. T.-154369.

Vashistha, N. C .- 154076.

Veb Dempferzeugerbau.—153931, 154052.

Veb Filmfabrik Wolfen.-153158, 153899.

Veb Schwermaschinenbau-Kombinat ernst 7 halmand,—152874, 153010, 154631.

Velunathan, P.—155832.

Venkanna, L. D .-- 153833.

Venkatanaryana, P.—153483.

Venkataramani N. K. R .-- 152581.

Vermont Castings, Inc.—153644.

Versa Consultoria Technica Ltd.—152799.

Vijayan, T. A.-152587.

Viljanmaa, A. K .-- 152907.

Vincent, Y .-- 152446.

Vishwesvaranj, R.-153866.

Vcest-Alpine Aktiengesellschaft.—152439, 152569, 152919, 153072, 153090, 153112, 153275, 153585, 153639, 153640, 153854, 154086, 154097, 154135, 154916, 155081.

Name & Appln. No.

-V (Contd.)-

Voltas Limited.—155046.

Vorobisva, L. A.-152735.

Vostochny Neuchno-Issledovatelsky I Proektny Institut Ogencupronoi Promyshlennosti,—152595.

Vsesojuzny Nauchno-Issledovatelsky I Prosktnokonstruktorsky Institut Atomnogo Energetioheskogo Mashinostroenia.— 152946. 154214. 154888.

Vsesojuzny Nauchno-Issledovatelsky I Proektny Institut Mekhanicheskoi Obrabotki Poleznykh Poleznykh Iskopaemykh.—154801.

Vsesojuzny Zaochny Mashinoestroitelny Institut.—152438. Vulcan Australia Ltd.—154231.

W

W. I. Gore & Associates Inc.-153916.

W. M. R. Stewart & Sons (Hacklemakers) Ltd.-153213.

Waagner-Biro Aktiengesellschaft .- 153067.

Wagener Schwehm GMBH & Co.-154597.

Wehlco International, Inc.-154363.

Waite & Son Limited .- 152415.

Wallsend Slipway Engineers Ltd,-152414, 152419, 152542.

anlass Technologies Incorporated.—152698, 154351.

Waterfield Engineering Limited,-153706, 153965.

Wavin, B. V.—153728, 153844, 153852, 153949, 154021, 154047, 154087.

Wavin, V. V .-- 153479.

Weber AG Fabrik Elektrotechnischer Artikel Und Apparate. —153022.

Wedco, Inc.—153499.

Welcome Foundation Ltd., The .- 153498.

Welsh, J.-153093.

Nenger Manufacturing,-152664.

Werner Weber Holding AG,-153590.

Western Electric Co.—152898, 153017, 153145, 155497.

Western Electric Company Incorporated.-154029.

Western India Plywoods Ltd., The.—152472, 154716.

Western States Machine Company, The.—152700, 152906, 153733.

Westinghouse Electric Corpn.—152409, 152428, 152440,

152500, 152517, 152526, 152592, 152603, 152658, 152676,

152689, 152691, 152740, 152771, 152772, 152774, 152784,

152809, 152814, 152882, 152902 153087, 153110, 153135,

153170, 153171, 153351, 153902, 153913, 154158, 154190,

154229, 154230, 154263, 154271, 154783, 154896, 154902, 154972, 154982, 155061, 156771

154972, 154982, 155061, 155071.

West Point Foundry and Machine Company,-154614.

Wheelabrator-Frye Inc.—152800.

.inie Consolidated Industries, Inc.-154332, 154519.

Whitehall Corporation.—154619.

Widia (India) Limited.—152394, 152588.

William Boulton Ltd.—153925.

Wilson, K. T. (Dr).—154039.

Wind Baron Corporation.—152418.

Winsome Trading Company.—154546.

Wistra GMBH Thermoprozesstechnik.—154784.

-W (Contd.) --

Woodcoxon Engineering (International) Limited.—152435.

Wool Development International Ltd.-153663.

Worcester Controls (U.K.) Limited.—153748.

Wybauw, J .-- 153401.

Х

Xerox Corpn.—153313, 153846, 154355.

¥

7 MHC Inc.-153552.

Yadav, J. R .-- 155043.

Yardrey Electric Corpn.-153205, 153206, 153950, 154248.

Yates, D.-153199.

Yokogawa Electric Works Ltd,—152723.

Z

Zshnredfabrik Friedrichshafen A. G.—152640, 153601, 153666, 153929, 154945, 154946.

Zaklady Tworzyw Szluoznych.—152564.

Zapadno-Sibirsly Metallurgichasky Zavod Imeni.—154122, 154791.

Zardi, U.-152944.

Zelacolor Systems Establishment.-152750.

Zellweger Uster Ltd.-152650.

Zhdanovsky Motallurgichesky Zavod "Azovstal".—153443.

Zinser Textilmaschinen GMBH.—154235, 154999.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and international Classification".

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/(postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the fololwing list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multipling the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS: $40-A_1$.

163521

Int. Cl.;

A FINED BED CATALYTIC REACTOR.

Applicant: MOBIL OIL CORPORATION, OF 150 EAST 42ND STREET, NEW YORK, NEW YORK, 10017, UNITED STATES OF AMERICA.

luventor: 1. FRITZ ARTHUR SMITH.

Application No. 1267/Cal/83 filed October 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

4 Claims

A fixed bed catalytic reactor containing a generally horf-tally positioned porous bed of catalyst particles within a closed reactor shell, said reactor comprising :

inlet means for introducing a downwardly flowing mixed reactant stream having both gaseous and liquid components:

phase separator means for receiving said mixted reactant, stream, said separator means being disposed within the reactor shell between said inlet means and said porous catalyst bed;

said separator means comprising an upper section formed by a foraminous wall which contains a plurality of gas outlets which permot a substantially gaseous phase portion of the reactant feed to escape outwardly from said separator means into an upper portion of said reactor above the catalyst bcd; and a lower section comprising liquid distribution means for receiving a stream of a substantially liquid phase portion of the reactant feed and dividing said liquid phase portion into a plurality of speced-apart liquid streams directed toward the top of the porous catalyst bed; and

means for recovering gaseous and liquid reaction products from thereactor shell.

Compl. specn. 14 pages.

Drgs. 3 sheets

CLASS : 32-A₁.

163522

int. Cl.: C 09 b 29/00, 29/30.

 Λ PROCESS FOR THE PREPARATION OF WATER-SULUBLE NAPHTHYL-AZONAPHTHOL COMPOUNDS.

Applicant: HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors: 1. FRITZ MEININGER, 2. HANS-JOACHIM BREDERECK.

Application No. 1478/Cal/83 filed December 2, 1983.

Appropriate office for opposition proceedings (Rule 4, atents Rule, 1972) Patent Office, Calcutta.

9 Claims

A process for the preparation of a water-soluble azo comremaind corresponding to the formula (1) of the accompanying drawing,

in which R¹ denotes a hydrogen atom or an alkyl group having 1 to 4 carbon atoms, which can be substituted by one or two solubilizing groups or a hydroxy group;

 R^3 denotes a hydrogen atom or an alkyl group having 1 to 6 carbon atoms, which can be substituted by one or two solubilizing groups or a hydroxy group, or denotes the phenyl radical or a naphthyl radical, it being possible for these phenyl and naphthyl radicals also to be substituted by 1, 2 or 3 substituents from the group comprising sulfo, carboxy, halogen, alkyl having 1 to 4 carbon atoms, hydroxy and carbalkoxy having 2 to 5 carbon atoms, or denotes a cycloalkyl radical; X denotes the vinyl group or a β -thiosulfatoethyl, β -chloroethyl or β -sulfatoethyl group, the group -SO₂ -X being bonded to the naphthalene radical in the 6- or 8-position;

n denotes the number zero. 1 or 2:

the group -SO₈M, where M has the meaning given below, of no fixed position in the aminonaphthol radical is bonded to the naphthalene nucleus in the meta-position or para-position relative to the amino group; and

M denotes a hydrogen atom or an alkali metal, or the equivalent of a metal of main group 2 or 3 of the periodic table, which comprises coupling the diazonium compound of a 2-naphthylamine of the fomula (2)

Formula :

in which M, X and n have the meanings given above and the group -SO₂ -X is bonded to the naphthalene nucleus in the 6- or 8-position, with a coupling component of the formula (3)

Formula 3

in which M, R¹ and R² have the meanings as given above and the fulfo group with no fixed position is bonded to the naphthalene nucleus in the meta-or para-position relative to the amine group.

Compl. specn. 20 pages,

Drgs. 2 sheets

CLASS: 206-F. 163523

Int. Cl.: H 04 r 29/00.

APPARATUS FOR DISTINGUISHING SPEECH SIGNAL FROM OTHER SIGNALS BEING RECEIVED BY A COMMUNICATIONS RECEIVER.

Applicant: N. V. PHILIPS GLOEILAMPENFABRIEKEN, AT GROENEWOUDSEWEG 1, EINDHOVEN, THE NETHERLANDS.

Juventor: JOHN PATRICK PARKER.

Application No. 231/Cal/84 filed April 10, 1984.

Convention date 20th April, 1983 (83 10708) U. K.

Appropriate office for opposition proceedings (Rule 4, Lacents Rule, 1972) Patent Office, Calcutta.

8 Claims

Apparatus for distinguishing speech signal from other signals being received by a communications receiver, said apparatus comprising an input device for connection to a path through the receiver for the received signal through attrial like device and means for effectively forming (for each of successive periods of time) a respective autocorrelogram of a signal received at said input and determining whether said autocorrelograms or autocorrelograms derived therefrom contain a component which corresponds to other than substantially zero delay, has at least a predetermined late, and does not exhibit a peak value which persits at a specific value of delay as these autocorrelograms relate to the successive periods of time.

Compl. speen, 26 pages,

Drgs. 6 sheets

CLASS:

163524

Int, Cl.; D 01 d 1/00; D 01 f 1/00.

AN IMPROVED CONTINUOUS PROCESS FOR PREPARING CRIMPED ANNHALED POLYESTER FILAMENTS.

Applicant: E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors: J. JACK ARNET HANCOCK, 2. WALTER DONALD JOHNSON, 3. ALAN DAVID KENNEDY.

Application No. 285/Cal/84 filed April 30, 1984.

Appropriate office for opposition proceedings (Rule 4, ments Rule, 1972) Patent Office, Calcutta.

19 Claims

An improved continuous process for preparing crimed innealed polyester filaments by treating a tow of melt-spun polyester filaments, and involving the steps of (1) drawing, (3) annealing, (3) crimping and (4) drying, characterized in that the annealing step is effected by using saturated steam at a pressure of at least 150 psig.

Compl. speen. 56 pages.

Drgs. 5 sheets

CLASS : 39-L.

1635**25**

iet. Cl.: C 01 f 7/02, 7/34.

METHOD FOR CARBONIZATION OF ALUMINATE SOLUTION.

Applicant: VSESOJUZNY NAUCHNO-ISSLEDOVATEL-SKY I PROEKTNY INSTITUT AIJUMINIEVOI MAGNIE-VOI I ELEKTRODNOI PROMYSHLENNOSTI, OF LENIN-GRAD, SREDNY PROSPEKT 86, USSR.

Inventors: 1. VENIAMIN ISAAKOVICH BERKH,

- 2. EFIM EVYDOVICH KRASNOPOISKY
- 3. ASKAR JOSIFOVICH FINEEISHTEIN
- 4. KHOREN AZARAPETOVICH BADALYA-NTS
- 5. VAIET IN VASILLIEVICH AIEXANDRIOV.
- 6. ISAAK ABRAMOVICH ZATWLOVSKY
- 7. MIKHAIL VENIAMINOVICH LEVING
- 8. TEODOR GEORGIEVICH MILBGEGR

- 9. VALENTIN NIKOLAEVICH AFANASIEV,
- 10. IVAN MIKHAILOVICH KOSTIN.
- 11. NIKOLAI STEPANOVICH SHMORG-GUNENKO,
- 12. PETER FOMICH MININ.

Application No. 505/Cal/84 filed July 12, 1984,

Appropriate office for opposition precedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

Method for carbonization of aluminate solution in a bank of series-connected, continuously-operating units including a continuous feed of solution to the head unit and carbonising gas as herein described to each unit of the bank characterized in that the concentration of caustic soda in a liquid phase of the suspension is calculated at the outlet of each unit based on a dynamic balance of a caustic soda incoming to and outgoing from the unit, and the concentration sismaintained in the range from 60 to 1g/1 by tapping the amount of gas from each unit directly proportional to the deviation of the predicted concentration from the real concentration maintained in the unit, and in those instances, when this deviation of the predicted concentration from the real concentration 'maintained in the unit, and in those instances, when this deviation exceeds the dynamic error of concentration caculationassigned to the remange from 1 to 4 g/1, the flow rate of aluminate liquor supplied to the bank is decreased till the dynamic error is offset.

Compl. Speen. 34 pages. Drg. 3 sheets.

Class. 126-D.

163526.

Int. Cl. G 01 d 1/00.

DEVICE FOR THE MEASUREMENT OF LINER FORCE

Applicant: ERHARD LEIMER GmbH, LEITERSHOFER STR.80,8900 AUGSBURGI WEST GERMANY.

Inventors: 1. JOHANNES WULF, 2. GUNTER HAHNE.

Application No. 649/Cal/84 flied September 14, 198 .

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Device for the measurement of linear force especially of the measurement of the pull (traction) in the running path including a gauge-ring in a radical support adapted to set out theradial effective force, characterized in that there is provided an axial support having slits with approximately tangential end areas adapted to limit the measuring zones, formed by means of the force, at least one wire-strain gauge being attached on at least one of the said measuring zones which are in the form of double transverse beams (19) which lie approximately perpendicular to the actual direction of the force (F), said approximately tangential end areas (12) of the slits (11) forming the ends of the double transverse beams (18), each located in the form of a ring at a maximum of 90° to each other in the direction of the centre of the gauge ring

(17), and on the ends of the double transverse beam (18) along the curve of the arched end areas of the slits (12) whose course (13, 14) is in the form of a ring and at least one wire strain gauge being fixed (19, 20) on the course of the end area of slit (12) of the turned side of the double transerse beam (18).

Compl. Speen. 17 pages. Drg. 1 sheet.

Class. 32-F, a & b.

163527.

Int. Cl. C 07 c 103/24; C 07 d 31/44, 33/56.

A METHOD FOR THE PREPARATION OF SUBSTITUTED AND UNSUBSTITUTED-2-[I-CARBAMOYL-1, 2-DIMETHYLPROPYL, CARBAMOYL]-3-QUINOLINECARBOXY-LIC COMPOUND.

Applicant: AMERICAN CYNANMI COMPANY, OF THE TOWNSHIP OF WAYNE, STATE OF NEW JERSEY, U.S.A.

Inventors: 1. WILLIAM HENRY GASTROCK,

2. TIMOTH FRANK MASON,

3. GREGORY PORTEE WITHERS.

Application No. 752/Cal/84 filed October 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A method for the preparation of compounds having the structure, indicated by formula (1) of the accompanying $d_{rawings}$

Formula I

where in A is N or CX1 and X1 are each independently hydrogen halogen, or $C_1 - C_4$ alkyl, Y is hydrogen, halogen, $C_1 - C_4$ alkyl $C_1 - C_4$ alkoxy, trifluoromethyl, trichloromethyl, diffuromethoxy, dl (lower) alkylamino, $C_1 - C_4$ alkylthio, phenyl, phenoxy or phenyl or phenoxy substituted with one $C_1 - C_4$ alkyl $C_1 - C_4$ alkoxyorhalogen; Z represents hydrogen $C_1 - C_4$ alkyl, trifluoromethyl, trichloromethyl, phenyl or phenyl substituted with one $C_1 - C_4$ alkyl, $C_1 - C_4$ alkoxy or halogen; and when taken together, Y and Z may form a ring in which YZ are represented by the structure, $-(CH_2)$ -, where n is an integer selected from 3 to 5, provided that X is hydrogen; or YZ is

L M Q R_7 | | | | | | |

-C=C-C=C -, where L, M, Q and R_7 each represent hydrogen halogen, C_1 — C_4 alkyl, C_1 — C_4 alkoxy, C_7 — C_4 alkylthio alkyl, difluoromethoxy di (lower) alkylamino, C_1 — C_4 alkylthio

nitro, phenyl, phenoxy, or mono-substituted phenyl or phenoxy where the substituent is one $C_1 - C_4$ alkyl, $C_1 - C_4$ alkoxy or halogen; with the provise that only one of L, M, Q or R_7 , may represent a substitutent other than hydrogen, halogen, $C_1 - C_4$ alkyl or $C_1 - C_4$ alkoxy, said method being characterised by : reacting a compound of formula (II)

Formula II

wherein X, Y, Z and A are defined as above, with from 1 0 to 1.5 molar equaivalent of 2-amino-2, 3-dimethylbutyronitrile in presence of a hydrocarbon or chlorinated solvent containing 1 0 to 3.0 molar equivalents of a polar aprotic co-solvent such as dimethylsulfoxide, dimethylformamide, acetonitrile, acetone, nitrobenzene, or mixtures thereof, at a temperature range of 25°C to 60°C for one to four hours; hydrolyzing the thus-formed compound of formula (III)

Formula III

wherein X, Y, Z and A are as described above, with 1.0 to 1.5 molar equivalents of water in the presence of 0.10 to 2.0 molar equivalents of sulfuric, hydrochloric, toluenesulfonic acid, of mixtures thereof, in a hydrocarbon or chlorinated hydrocarbon solvent, such as heptane, toluene, xylene, methylene chloride, chloroform and cloroethane, or a trichloroethane in the presence of 0.0 to 3.0 molar equivalents of a polar aprotic co-solvent such as dimethylsulfoxide, dimethylformamaide, acetonitrile acetone, nitrobenzene, or mixtures thereof, at a temperature range of 20°C to 60°C for one to five hours to obtain compounds of formula (i) as defined above.

Compl. Specn. 22 pages.

Drg. 4 sheets.

Class 5-A.

163528.

Int. C . B 62 d 49/00.

A COUPLABLE AND UNCOUPLABLE LOAD CARRYING THRUST UNIT.

Applicant & Inventor : EDUARD BALTENSPERGER,
OF EICHS-STRASSE 176,
BRUTTEN, SWITZERLAND.

Application No. 501/Cal/85 filed July 5, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

10 Claims.

A couplable and uncouplable, load-carrying thrust unit for astecrable wheeled vehicle, particularly agricultural and forestry tractors, earthmoving machines construction machines and cross-country vehicles, wherein the thrust unit is constructed as a caterpillarchasis and is positioned at the back of the wheeled vehicle, whilst being provided with means for coupling to the steerable whoeled vehicle, said means being constructed for transferring the thrust unit to the wheeled vehicle and reducing the ground pressure per unit area of the wheeled vehicle.

Compl. Specn. 11 pages.

Drg. 4 sheets.

CLASS:

163529

Int. Cl. : F 27 b 7/00.

APPARATUS FOR HEATING CHARGING MATERIAL.

Applicant: KORTEC AG., BAHNHOFSTRABE 21, 6300 ZUG. SWITZERLAND.

Inventor: 1. WILLIAM WELLS.

Application No. 879/Cal/85 filed December 6, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

10 Claims

Apparatus for heating charging material, in particular Apparatus for heating charging material, in particular metal scrap, by a heating gas, in particular hot waste gas from a smelting or refining unit, comprising a charging material pre-heater (1) in the form of a container (2) for receiving the charging material (3) to be heated up, which has a closable bottom opening (4) for emotiving the container (2) a removable cover (5) for introducing the charging material (3) into the container (2) and a lower and an upper opening (9 and 10) for introducing and removing the heating gas, wherein the interior of the container is divided by a grid (6) which falls away in an inclined position towards the bottom opening (4), into a receiving space (7) for the charging material and a free lower annular space (8) into which the lower opening (9) for the heating gas opens, characterised in that provided in the container (2) is a hollow cylinder (13) which passes through the cover (5) and which is closed at its lower end and in its upper region, which hollow cylinder can be raised and lowered and in the lowered position closing the bottom opening (4) and in the raised position opening the bottom opening for emptying of the container (2), that the upper opening (10) for the heating gas open into an upper annular space (11) formed between the charaing material (3) and the cover (5), and that in the lower region the displaceable hollow cylinder (13) has a plurality of peripherally distributed gas orifices (16) and, in the region of the upper annular space (11), at least one gas throughflow opening (17),

Compl. specn, 14 pages.

Drg. 1 sheet

CLASS:

163530

Int. Cl. : C 07 c 7/00.

AN IMPROVED PROCESS FOR PURIFYING POLY-MERIZATION OF 2-5. KASUMIGASKEKI, 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors: 1. TADASHI ASANUMA, 2. TATUO OHOKA.

3. MINORU HINO, 4. NOBUTAKA UCHIKAWA.

Application No. 144/Cal/86 filed February 27, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Pule, 1972) Patent Office, Calcutta.

An improved process for purifying a polymerization solvent having a boiling point of 60 to 140°C by distillation said selvent being to be employed upon polymerization of an olefin having 2 to 4 carbon atoms in the presence of a Ziegler-Natta catalyst which comprises:

feeding the polymerization solvent to a stage lower than a chimney tray of a multi-stage distillation column, said chimney tray being provided at a height between the top and bottom of the column;

feeding an organoaluminum compound such as herein described to a stage higher than the chimney tray;

drawing out a condensate from the chimney tray;

heating the soudensate to produce heated vapor;

introducing the heated vapor to the chimney tray or to a stage higher than the chimney tray but lower than the stage to which the organoaluminum compound has been fed; and

drawing the solvent in a purified state from the top, and drawing high boiling-point components from the bottom and obtaining high boiling-point components from the condensate from the chimney tray.

Compl. specn, 20 pages.

Drgs. 2 sheets

CLASS:

163531

Int. Cl.; B 67 b 1/00, 3/00.

TAMPER EVIDENT RELEASABLE CAP OR CLOSURE FOR CLOSING, OPENING AND RECLOSING A PACKAGE.

Applicant: TRI-TECH SYSTEMS INTERNATIONAL, INC., OF 169 AUTUMN ROAD, WEST SPRINGFIELD, MASSACHUSETTS 01089, UNITED STATES OF AMERICA,

Inventors: 1. MORT IMERSTAFFORD THOMPSON, 2. ELI ASHER.

Application No. 91 'Cal/84 filed February 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

33 Claims

A temper evident reseable cap or closure for closing, opening and reclosing a package including a stretchable portion thereof which effect a change in color when stretched, and mechanical means thereon adapted to coact with the package to stretch said portion to effect a change in color which indicates the condition of the package.

Compl. specn. 42 pages.

Drg. 7 sheets

CLASS 206-E.

163532

Int, Cl.: H 03 h 3/00.

IMPROVEMENT IN RESONANT TAG CIRCUIT WITH DEACTIVATOR FOR USE IN AN ELECTRONIC SECURITY SYSTEM.

Applicant & Inventor: GEORGE JAY LICHTBLAU, 13 TANNERY HILL ROAD, RIDGEFIEL CONNECTICUT 06877, UNITED STATES OF AMERICA.

Application No. 485/Cal/84 filed July 7, 1984.

Appropriate office for opposition proceedings (Rule 4, stents Rule, 1972) Patent Office, Calcutta.

7 Claims

A resonant tag circuit with deactivator for an electronic security system comprising :

- a planar substrate of dielectric material;
- a tuned circuit on said substrate in planar circuit configuration and resonant at said freguency;
- said tuned circuit having a pair of conductive areas in alignment on respective opposite surfaces of the substrate to define a capacitor of the tuned circuit;

means within the conductive areas defining a path between the conductive areas and through the substrate at which electromagnetic field at said frequency of sufficient energy, and operative to destroy the resonant properties of the tuned circuit.

Compl. specn. 16 pages.

Drg. 4 sheets

CLASS: 139-A.

163533

Int. Cl. : C 01 b 31/00.

PROCESS AND REACTOR FOR PRODUCING CARBON BLACK FROM CARBONACEOUS FEEDSTOCK.

Applicant: PHILLIPS PETROLEUM COMPANY. OF BARTLESVILLE, STATE OF OKLAHOMA, UNITED STATES OF AMERICA.

Inventors: 1 1. MARK LEE GRAVLEY, 2. EULAS WEBB HENDERSON.

Application No. 661/Cal/84 filed September 19, 1984.

Appropriate office for opposition proceedings (Rule 4, Potents Rule, 1972) Patent Office, Calcutta.

15 Claims

A process for producing carbon black from a carbonaceous feedstock comprising flowing a stream of hot combustion having a temperature sufficiently high to decompose the said carbonaceous feedstock and form carbon black sequentially through a converging zone, a throat and an abruptly diverging zone, characterized by introducing the carbonaceous feedstock transversely into the stream of hot combustion gases from the periphery of the stream for decomposition to form the carbon black; the said carbonaceous feedstock being introduced as a diverging cone-shaped spray diverging at an angle in the range of 30° to 120° into at least one of the converging zones and the throat.

Compl. Specn. 30 pages.

CLASS: 129-P.

163534

Int. Cl.; B 23 b 29/00, 31/00.

AN OVERLOAD COUPLING DEVICE FOR THREAD-CUTTER CHUCKS OR QUICK-CHANGE INSERTS THEREFOR.

Applicant: OTTO BILZ, WERKZEUGFABRIK, 8-VOGE-LSANGSTRASSE, 7302 ASTFILDERN 2, FEDERAL REPUBLIC OF GERMANY.

Inventor; 1: PAUL UEBERALL,

Application No. 668/Cal/84 filed September 22, 1984.

Appropriate office for opposition proceedings (Rule 4, ones Kule, 1972) Palent Office, Calcutta.

15 Claims

An overloaded coupling device for thread-cutter chucks or An overloaded coupling device for thread-cutter chucks or quick-change inserts therefor, comprising a cylindrical sleeve and active the rotational drive moment, a drive shank orivable by said drive sleeve and held coaxially and rotatably within said sleeve; a spring-loaded ball-pocket coupling with adjustable tripping torque positioned in a force transmission bux between said drive sleeve and said drive shank and including a plurality of coupling balls which couple said drive shank with said drive sleeve, said drive sleeve being formed with a paramity of cage slots which are inwardly and outwardly open in a radial direction and which are open in an axial direction. in a radial direction and which are open in an axial direction on axial end faces thereof, said cage slots each receiving one of said coupling balls, the angular width of said cage glots being at least as great as the diameter of each coupling ball, said drive shank having a peripheral surface facing said drive sleeve and being formed at said peripheral surface in the axial regions of said cage slots with recessed ball-pockets spaced from each other at equal ungular intervals in a circumrerential direction, said ball pockets being of a depth smaller than the ball pockets being of a depth smaller than the diameter of the coupling ball and adapted for receiving said coupling balls; a cylindrical closure sleeve coaxially surrounding said drive sleeve and held on said drive sleeve with a formation therebetween of an annular space; a thrust ring arranged in said annular space on an axial side of said coupling balls, said thrust ring being adjustably supported by thrust springs axially in the direction towards said cage slots and being pressable against said coupling balls said cage slots and being pressable against said coupling balls said cage slots being substantially inclined towards a working drive direction of said drive sleeve, said closure sleeve having in the axial region of said cage slots in an interior an annulan groove the bottom of which extends at a radial distance corresponding at least to the diameter of the coupling ball trom said peripheral surface of the drive shank, characterized in that said cage slots are arranged in the circumferential direction of said drive sleeve in pairs and following closely adjacent one after another, one cage slot in a pair having an angular width which is substantially as great as the diameter of the associated coupling ball, and another cage slot in the pair, which follows closely adjacent said one cage slot, having an angular width which is substantially greater than the diameter of the associated coupling ball; and an annular elastic element is arranged in the annular space between the closure sleeve and the drive shank, said elastic element, in appraisance of said ball pocket coupling exercises on the associated operation of said ball pocket coupling exerting on the respec-tive coupling ball radially displaced from the associated ball pocket into said annular groove and positioned between said peripheral surface of said drive shaft and said annular groove of said closure sleeve a prestressed radial force.

Compl. Specn. 29 pages.

Drgs. 2 sheets.

CLASS: 206-E.

163535

Int. Cl.: H 01 l 19/00.

ENCAPSULATED ELECTRONIC CIRCUIT DEVICE.

Applicant & Inventor: MILTON IVAN ROSS, OF 400 COLLEGE AVENUE, HAVERFORD, PENNSYLVANIA 19041, UNITED STATES OF AMERICA.

Application No. 395/Cal/85 filed May 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta

20 Claims

An encapsulated electronic circuit device comprising:

a first assembly including at least one electronic circuit device connected by bonded wires to an array of conductive leads extending therefrom; and

a second assembly including plural generally parallel mutually laminated layers of plastic resin and fiber completely surrounding and encapsulating said first assembly except for the distal ends of said leads which remain exposed for external electrical connections.

Compl. speen, 43 pages.

Drgs. 3 shoots

CLASS:

163536

Int. Cl.: F 28 d 19/00.

ELEMENT BASKET ASSEMBLY FOR HEAT EXCHAN-

Applicant: THE AIR PREHEATER COMPANY, INC. OF ANDOVER ROAD, NEW YORK, WELLSVILLE,

Inventor: 1. KENNETH ORREN BELLOWS.

Application No. 677/Cal/85 filed September 24, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 19/2) Patent Office, Calcutta.

2 Claims

An element basket assembly for a heat exchanger comprising:

- (a) a plutality of heat transfer element plates juxtaposed in a stacked array;
- (b) first and second end plates disposed at opposite ends of said stacked array of heat transfer element plates in abutting relationship therewith;
- (c) at least one first side strap interconnecting said first and second end plates, said at least one first side strap disposed along one side of said stacked array of heat transfer element plates so as to run diagonally from a higher location on said first end plate to a lower location on said second end plate;
- (d) at least one second side strap interconnecting said first and second end plates, said at least one second side strap disposed along the other side of said stacked array of heat transfer element plates opposite the side along which said at least one first side of the said at least one first side strap is disposed, said at least one second side strap running diagonally from a lower location on said first end plate to a higher location on said second end plate.

Compl. Speen. 10 pages.

Drgs. 2 sheets.

CLASS: $186-\Lambda$.

163537

Int. Cl.: H 03 h 7/22.

MONO-PASS ELECTRICAL FILTER.

Applicant & Inventor: SHRI SAIBAL ROY OF 47, MANICKTALA MAIN ROAD, CALCUTTA-700 054, INDIA.

Application No. 74/Cal/86 filed January 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

"Monopass electrical filter" comprises of four impedances namely "Z₁", "Z₂" and "Z₁", Z₂" arranged cyclically one each in the four arms of a wheatstone's bridge and a load resistor namely "G" connected between two joining points of each pair of "Z₁" and "Z₂" wherein "Z₁" impedance consists of either of fixed or variable capacitor in parallel with a fixed or variable inductor or its equivalent piezo-electric crystal and this said combination or combinations connected with either a fixed or variable resistor or any passive electric components in series meant for narrowing the pass band width; and each "Z₂" impedance consists of either a fixed or variable capacitor in parallel with a fixed or variable inductor or its equivalent piezo-electric crystal connected in parallel with a fixed or variable with a fixed or variable with a fixed or variable resistor and this said combination or combinations connected with either a fixed or variable resistor or any passive electric components in series meant for narrowing the pass band width; input being through two other joining points of each pair of "Z₁" and "Z₂" impedance not connected to the aforesaid load resistor.

Compl. Specn. 19 pages.

Drg. 1 sheet.

CLASS: 32-E.

163538

Int. Cl.: C 08 f 3/00, 3/04, 15/00.

IMPROVED CONTINUOUS PROCESS FOR THE MANUFACTURE OF HOMOPOLYMERS OF ETHYLENE UR COPOLYMERS OF ETHYLENE WITH AT LEAST ONE «-OLEFIN.

Applicant: SOCIETE CHIMIQUE DES CHARBONNAGES S.A., OF TOUR AURORE PLACE DES REFLETS, F-92080 PARIS LA DEFENSE, CEDEX 5, FRANCE.

Inventors: 1. KAREL BUJADOUX, 2. JEAN-PIERRE MACHON, 3. SERGE BIECHLIN.

Application No. 732/Cal/87 filed September 11, 1987.

Division of Appl. No. 1567/Cal/83 dated 22nd December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Continuous process for the manufacture of homopolymers of ethylene or of copolymers of ethylene with at least one α -olefine containing from 3 to 8 carbon atoms, comprising in succession:

- (a) a first stage for homopolymerising ethylene of (co) polymerising ethylene with at least one α-olefine at a temperature of between 180 and 320°C, at a pressure of between 300 and 2500 bars, in the presence of a catalytic system comprising, at least one halogenated compound of a transition metal from groups IVa to VIa of the Periodic System and at least one activator selected from the hydrides and the organometallic compounds of metals of groups I to III of the Periodic System, the molar ratio of the activator to the transition metal compound being between I and 10,
- (b) a second stage for separating the homopolymer or (co) polymer formed from the unreacted monomer(s), at a pressure of between 100 and 500 bars.
- (c) a third stage forrecycling the unreacted monomer(s), and

(d) a fourth stage for recompression up to the polymerisation/(co) polymerisation pressure (300 to 2500 bars),

characterised by introducing by means known per se into the reaction medium at the end of the first stage, at least one comopund such as herein described capable of reducing the transition metal or metals of the catalytic system, introducing during the 2nd and/or 3rd stage, into the steam of recycled monomer(s) and, where applicable, of the (co) polymers formed, at least one compound selected from:

- the amides of saturated or unsaturated organic acids containing from 12 to 22 carbon atoms,
- polyalkylene polyols containing from 4 to 500 carbon atoms,
- compounds such as hereindescribed containing at least 2 epoxide functions,

the molar flowrate of the compound introduced at end of first stage being between 0.2 and 6 times the atomic flowrate of the transition metal or metals of the catalytic system, and the quantity of the compound introduced during second and/or third stage being between 0.001 and 0.1 mole per tonne of recycled monomer(s).

Compl. Specn. 19 pages.

Drgs. 2 sheets.

CLASS:

163539

Int. Cl. : B 60 T 7/00.

BRAKE ACTUATOR.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM B 19 2XF, ENGLAND.

Inventors: (1) RICHARD EDGAR THOMPSON, (2) ROBERT GEORGE UZZEL.

Application No. 99/Mas/85 filed February 7, 1985.

Convention date: February 9, 1984. (No. 8403388 United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

14 Claims

A brake actuator comprising a pair of actuator components separable by the application of hydraulic pressure and associated respectively with first and second adjuster members which are interengaged by means of a reversible screw threaded connection, one of said members being rotatable and the other non-rotatable, the rotatable member being arranged to follow brake-aplying movement of one of the actuator components and being movable axially relative to the other adjuster member by rotation therealong in response to excessive movement of said one actuator component, clutch means operable under spring force normally to prevent rotation of said rotatable adjuster member until adjusting movement thereof is required, an auxiliary part axially and rotationally movable relative to said one actuator component and in fluid-tight relationship with the latter, said auxiliary part being manually operable from the exterior of the actuator to drivingly engage the rotatable adjuster member, so that by rotation of the auxiliary part the adjuster member may be rotated relative to said one actuator component in a direction to effect deadjustment of the adjuster.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS:

163540

Int. Cl.4: F 23 J 3/00.

A SOOT BLOWER.

BERGEMANN GmbH, OF SCHILLWIESE, OF 4230 WESEL, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventors: (1) KARL ALBERS, (2) HANS SCH-WADE.

Application No. 148/Mas/85 filed February 21, 1985.

Convention date: October 31, 1984; (No. 466 765; Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

A soot blower for cleaning heating surfaces of a heat exchanger comprising, a lance :

- said lance being provided at its front 'end with jets and at its rear and being connected through a soot blower valve to a feed line for a blowing medium, said lances passing through a wall of the heat exchanger and being sealed by a wall casing where the lance passes into the heat exchanger,
- a connector for a purging medium for said lance between the soot blower valve and the jets of said lance,
- a connector for a sealing medium on said wall casing,
- a separated system for generating and distributing purging medium and sealing medium for said soot blower connected to said respective connectors,

and a check valve between the soot blower valve and said purging medium connector for preventing flow of blowing medium into said generating and distributing system.

Compl. Specn. 9 pages.

Drgs, 2 sheets.

CLASS :

163541

Int. Cl.⁴: G 01 C 17/32.

COMPASSES.

Applicant: BRITISH AEROSPACE PUBLIC LIMITED COMPANY, OF 100 PALL, MAIL. LONDON, SW1Y 5HR, ENGLAND, A BRITISH COMPANY.

Inventors: (1) JAMES BARRY OWEN, (2) PETER ROYD WILKINSON.

Application No. 526/Mas/84 filed July 19, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A compass comprising sensor means for forming respective digital signals indicative of the components of the Farth's magnetic field along at least three axes of an axis system fixed with respect to the compass, and computing means for receiving said signals and for receiving further signals indicative of the attitude of the axis system relative to a horizontal plane, i.e. of the angles between at least two of said at least three axes and the horizontal plane, and programmed to calculate the field components in two planes of the axis system, to calculate the magnitudes of the projections of those two field components onto said horizontal plane, and for using said two magnitudes to calculate the direction of North relative to the compass position, wherein said sensor means comprises three Hall-effect magnetic field sensing devices, i.e. solid state devices wherein the magnitude of a current flowing between opposing electrodes locat-

ed on an axis of the device whenever a potential difference is applied thereto is proportional to the strength of a magnetic field applied in a direction orthogonal to said axis, mounting means supporting said devices in mutally orthogonal positions, difference amplifier means connected to said devices and to a common reference signal source and operable to form three output signals respectively representative of the difference between the common reference signal and the respective signals from said devices, and analog-to-digital converting means of forming respective digital signals representative of said difference amplifier means output signals.

Compl. Specn. 11 pages.

Drgs. 3 sheets.

Int. Cl.4-B 65 D 53/02.

163542

A LEVER RING FOR A CONTAINER BODY.

Applicant: METAL BOX PLC., A BRITISH COMPANY, OF QUEENS HOUSE, FORBURY ROAD, RFADING RG1 3JH, FNGLAND.

Inventor: (1) ADRIEN PATRICK RAYNER (2) KENNETH ROBERT CLARK.

Application No. 940/Mas/84 filed December 1, 1984.

Convention date: December 2, 1983; (No. 8332287; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A lever ring for a container body and adapted to receive a plug lid removable from the ring by means of a lever, wherein the ring is moulded from a plastic material and comprises an annular flange adapted to fit in an open upper end of the container body and to engage with the interior surface of the container body, a flared portion and a ring portion adapted to receive and grip, when in use, a plug portion of the plug lid, said flared portion extending from the upper end of the annular flange radially and axially into the ring portion in the downward direction inwardly of the container body, whereby said flared portion permits easy entry of the plug portion of the plug lid and thereafter firm retention of the lid.

Compl. Specn. 19 pages.

Drgs. 5 sheets.

Int. Cl. : H 01 M 4/96, 10/34

163543

AN ELECTRODE FOR USE IN A SECONDARY ELECTRICAL ENERGY STORAGE DEVICE.

Applicant: THF DOW CHEMICAL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE I AWS OF THE STATE OF DELAWARE, OF 2030 DOW CENTER, ABBOTT RAD, MIDLAND, MICHIGAN 48640, UNITED STATES OF AMERICA.

Inventor: FRANCIS P. MECULLOUGH, ALVIN, F. BEALE.

Application No. 946/Mas/84 filed 3 December 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 claims

An electrode for use in a secondary electrical energy storage device comprising an electrode body of an electrically conductive carbonaceous material such as herein described having a Youngs domina of from 1,000,000 psi (6.9 GPa) to \$5,000,000 psi (380 GPa) and a current collector comprising a known electically conductive metal plated on a least one edge of said carbonaceous material, and wherein said plated edge is coated with a known nonconductive, non-reactive protective material.

Compl. Specn. 31 pages.

Drgs. 3 sheets.

CLASS:

163544

Int. Cl.4: C 07 C 19/045.

A PROCESS FOR PRODUCTION OF 1-2-DICHLORO-ETHANE BY OXYCHLORINATION OF ETHYLENE.

Applicant: WACKER-CHEMIE GmbH, OF 22 PRINZRE-GENTENSTRASSE, POSTFACH 8000, MUNICH, WEST GERMANY, A GERMAN COMPANY.

Inventors: (1) LUDWIG SCHMIDHAMMER (2) RUDOLF STRASSER, (3) PETER HIRSCHMANN, (4) KIAUS HASFLWARTER, (5) GERHARD DUMMER.

Application No. 971/Mas/84 filed December 10, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A process for the production of 1, 2-dichloroethane by oxychlorination of ethylene with hydrogen chloride and enriched air containing 28 to 60% by volume of oxygen in fixed bed of a serially connected multiple reactor containing cupric chloride catalyst system such as herein described wherein 110% to 120% and 105% to 115% of stoichiometric amounts of ethylene and oxygen with respect of hydrogen chloride respectively are introduced and 1, 2-dichloroethane is recovered in a known manner.

This is used as a chlorinated solvent intermediate as well as industrial solvent for paint, varnish and finish removers, metal degreesing etc.

Compl. speen, 10 pages.

No Drg.

CLASS:

163545

Int Cl.4: F 16 B 37/00.

A GASTENER FOR AFFIXING PARTS TO A CHANNELED STRUCTURAL MEMBER.

Applicant: GTE PRODUCTS CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS O THE STATE OF DELAWARE, OF 100 WEST 10TH STREET, WILMINGTON, DELAWARE, U.S.A.

Inventor: HUGO F. REBENTISCH

Application No. 1015/Mas/84 filed December 19, 1984.

Convention date: December 11, 1984; (Australia) No. 36494-84.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

6 Claims

A fastener for affixing parts to a channeled structural member, the channeled structural member having a depth, width, a bottom section, two parallel side sections being spaced apart by a distance between said side sections, and a top section parallel with the bottom section, said ton section having a longitudinal slot bordered by inwardly projecting flanges, said flanges each having an end pertion, said flanges being spaced apart by a slot width distance; said fastner comprising:

a nut having a depth, a width, a length longer than its width, opposite parallel longitudinal side surfaces, end surfaces, a top major face, and an opposite bottom major face substantially perpendicular to said side surfaces, said nut having parallel grooves located on said top major face perpendicular to said parallel longitudinal side surfaces, said parallel grooves having flange eneaging menns therein for engaging said end portion of said flanges of said channeled structural member, said parallel grooves being spaced apart and centered on said top major face for co-acting with said flanges of said channeled structural member, said longitudinal side surfaces being configuous with said end surfaces forming a first and a second set of diagonally opposite corners, said first set of diagonally opposite corners being spaced apart by a first set diagonal dimension, said first set diagonal dimension, said first set diagonal dimension, said first set diagonal dimension being sufficiently less than the distance between said parallel side sections of said channeled structural member to provide clearance between said first set of diagonally opposite corners and said parallel side sections during installation of said nut, said nut having an extended portion above said top major face of end ant, said nut having an overall thickness equal to said depth of said nut having an overall thickness equal to said depth of said nut having an overall thickness equal to said depth of said nut having two sets of opposite parallel extended sides, said two sets of opposite parallel extended sides, said two sets of opposite parallel extended sides, said two sets of opposite corners being spaced apart by a third, set diagonal dimension, said third set of diagonally opposite corners being spaced apart by a third set diagonal dimension being sufficiently less than said slot width distance of said channeled structural member to provide clearance between said third set of diagonally opposite corners co-acting with said flanges during the inst

Compl. specn. 17 pages.

Drgs. 3 sheets

CLASS:

163546

Int. Cl. : C 09 B 67/22.

A MONOAZO DYFSTUFF COMPOSITION AND A PROCESS FOR PREPARING THE SAME.

Applicant: CASSELLA AKTIENGESELLSCHAFT OF MANAUER LANDSTPASSE 526. D-6000 FRANKFURT' MAINFECHENHEIM. WEST GERMANY. A BODY CORPORATE ORGANISED UNDER THE LAWS OF WEST CERMANY.

Inventors: (1) ULRICH BUHLER, (2) MANFRED MANKE, (3) ALBERT BODE, (4) KURT ROTH, (5) MARGARETE BOOS.

Applicantion No. 1031/Mas/84 filed December 22, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch.

11 Claims

A monoazo dyestuff composition, characterized in that consist of two or three different dyestuffs of the formula I of the accompanying drawings

wherein the minimum proportion by weight of an individual esteation is 10% and the maximum proportion by weight is 90% in the dyestuff of Formula I of the accompanying drawings R¹ denotes alkyl of 1 to 6 carbon atoms, cyclo-

pentyl, cyclohexyl, fluorine, chlorine, bromine, alkoxy of 1 to 4 carbon atoms or trifluoromethyl, R² denotes alkyl of 1 to 3 carbon atoms and R³ and R⁴ independently of the other, each denotes alkyl of 1 to 4 carbon atoms wherein R¹ of the individual dyestuffs is not the same.

Compl. specn. 28 pages.

Drg. 1 sheet

CLASS:

163547

Int. Cl.4: B 01 J 21/00.

A PROCESS FOR PREPARATION OF AN ACTIVAT-ED CATALYST

Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.Y., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventors: (1) JOHANNES KORNELIS MINDER-HOUD

(2) MARTIN FRANCISCUS MARIA POST

Application No. 1043/Mas/84 filed December 27, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims,

A process for preparation of an activated catalyst wherein a catalyst comprising 3-60 pbw of cobalt and 0.1-100 pbw of at least one other metal chosen from the group formed by zir conium, titanium and chromium per 100 pbw of silica alumina or silica-alumina, which catalyst has been prepared, by kneading and /or in pregnation, is contacted with hydrogen or a hydrogen-containing gas at a temperature in the true between 200 and 350° C under such conditions as to satisfy the relation:

D $10 \times S$ $104 \times (PH_2)^2 \times P$ Tot Lx (Z+1)

D⇒space velocity, as N1·1-1.h-1, PH₂=hydrogen partial pressure, as bar,

PTot-overall pressure, as bar,

S=surface area of the catalyst, as m²/n₁l,

L-cobalt load of the calalyst as mg Co/ml, and

Z=zirconium load of the catalyst as mg Zr/100 M m 'carrier.

Compl. Specn. 20 pages.

No drawing

CLASS :

163548

Int. Cl4: C 10 J 3/48.

AN APPARATUS FOR THE PARTIAL COMBUSTION OF A CARBONACEOUS FUEL WITH AN OXYGEN-CONTAINING GAS.

Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPII B. V., A NETHERLANDS COMPANY OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventors: (1) GUNTER KLAUS ECKSTEIN, (2) KURT SCHLEYER.

Application No. 24/Mas/85 filed January 11, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

14 Claims

An apparatus for the partial combustion of a carbonaceous fuel with an oxygen-containing gas which apparatus comprises a reactor which is equipped with a slage discharge in the bottom, debouching into a water bath, characterized in that the water bath is provided with a baffle, dividing the water bath into an upper quenching zone and a lower capturing zone, with means for lowering and raising the water level in the water bath and with an outlet for floating slag and water at the top of the capturing zone and wherein the baffle is arranged such that it covers a sufficient part of the horizontal cross-section of the water bath to capture a substantial amount of the floating slag, when the water level is being raised, and it is not so large that it interfers with slag falling downwards.

Compl. speen. 14 pages.

Drgs. 2 sheets

CTASS:

163549

Int. Cl.4: B 60 T 7/00.

HYDRAULIC ACTUATOR FOR A VEHICLE BRAKE.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM, B 19 2XF, ENGLAND.

Inventors: (1) BRIAN INGRAM, (2) HUGH GREN-VILLE MARGETTS, (3) JOHN ROBERT REES.

Application No. 58 Mas/85 filed January 24, 1985.

Convention date: February 2, 1984; (No. 8402775 United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

An hydraulic actuator for a vehicle brake, comprising a cylinder body, an actuator piston slidable within said cylinder body under the action of actuating fluid pressure applied to an area of the piston, and an automatic adjuster which includes a strut of variable length formed by members threadedly inter-engaged by way of a non-reversible screw thread connection, one of said members being a rotatably supported adjuster shaft having a reversible screw thread connection with means for controlling rotation of said adjuster shaft during brake release, the other of said members being a nut carried by the piston in non-rotatable manner, the dutister shaft extending within a bore of the piston and being sealed against the bore to form a pressure area smaller than said piston area, the arrangement being such that, foring brake application, said piston and adjuster shaft areas are subject to the actuating pressure acting thereon in the time direction, thereby creating a resultant forcein said non-wersible screw thread connection tending to resist relative rotation of said strut members.

Compl. specn. 12 pages.

Drgs. 3 sheets

CLASS:

163550

Int. Cl. : E 03 D 11/02.

AN IMPROVED ORISSA PAN.

Applicant: NFIVELI CERAMICS AND REFRACTORIES LIMITED. VADALUR P O. 607 303. SOUTH ARCOT DISTRICT, TAMIL NADU, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventor: UMATOSH SARKAR.

Application No. 458/Mas/85 filed June 21, 1985.

Complete Specification left: June 23, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved orissa pan comprising a bowl and a water inlet born provided with at least two lateral water outlets characterised in that the bowl is provided with an open rim and also with an uperforated box rim spaced from each other, the inlet ends of the said rims at the rear of the bowl communicating with the said water outlets to receive water thereinto, while the outlet end of the box rim opens out into the bowl at its front.

Prov. specn. 3 pages.

Compl. Specn. 7 pages.

Drgs. 2 sheets.

CLASS: 40 A2.

163551

Int, Cl. : C 08 f-1/00 & B 01 j-1/00.

"AN IMPROVED REACTOR FOR PRODUCING HIGH VISCOUS POLYMERS."

Applicant: SHRI RAM INSTITUTF FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : JAI KRISHAN NIGAM, DATTAPRASAD ACHYOT DABHOLKAR, GEETA UNNIKRISHNAN AND PREM KUMAR MAIR.

Application for Patent No. 190/Del/1982 filed on 8th March, 1982.

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An improved reactor for producing impact resistant polymers of vinyl aromatic compounds comprising a jacketted vessel having an inlet for introduction of a charge, an outlet for discharge of the polymer, a rotatable shaft disposed within said vessel, a plurality of blades held to said shaft characterized in that said shaft comprises a hollow shaft having an inlet disposed at or in the proximity of one end of said shaft and such that the charge from the space defined between said inner wall surface of the reactor and the outer surface of the shaft is introduced into said shaft, an outlet provided at or in the proximity of the opposite end of said shaft.

Compl. specn. 17 pages.

Drg. 1 sheet

CLASS: 144 E3 & 32 E.

163552

Int. Cl.; C 08 f 3/02, 3/30.

"A PROCESS FOR THE POLYMERIZATION OF OLE-FINIC MONOMERS SUCH AS VINYL HALIDES".

Applicant: SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH. 19, UNIVERSITY ROAD, DFLHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors: VED PRAKASH MALHOTRA, AMARJIT SINGH & MINAKSHI GUPTA.

Application for Patent No. 426/Del/82 filed on 3rd June, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

8 Claims

In a process for polymerization of elefinic compounds such as vinyl halides, vinylidene helides and vinylidene monomers having at least one terminal CH₂=C< groupings and mixtures thereof the step of coating the reaction vessel prior to the step of polymerization which consists in applying a first coating an antiscaling composition consisting of a condensation product of pyrogallol in a water solution containing an alkali metal salt, such as sodium hydroxide having a strength of not less than 0.001 N and thereafter, applying a second coat consiting of a suspension of hydroxy propoxy methyl cellulose.

Compl. specn. 11 pages.

CLASS: 32 F_2 (b) & 55 F_4 .

163553

Int. Cl.: C 07 d 31, 00 & 51/00.

"A PROCESS FOR THE PREPARATION OF PYRI-DINES AND PYRIMIDINES".

Applicant: PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors: JOSEPH GEORGE LOMBARDINO & CHARLES ARMON HARBERT.

Application for Patent No. 464/Del/84 filed on 16th June, 1984.

Ante-dated to 16th August, 1980.

Divisional to patent application No. 597/Dcl/80 filed on 16th August. 80.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Calims

A process for the preparation of a compound of a formula

wherein V is N or C-H; n is 1 or 2; W is methylene, unsubstituted or substituted with either a methyl group or a phenyl group; and Z is hydrozen, methyl (Ci-C₄) alkyl or phenyl; with the proviso that when W is substituted with phenyl, Z is other than phenyl; which comprises hydride reduction of compound of the formula II

where V, n. W are as defined above and Z¹ is Z which is as defined above in a reaction insert solvent such as herein described at a temperature of C-100°C.

- Compl. speen, 42 pages,

Drgs. 8 sheets

Int. Class⁴: F24J 2/24.

163554

Tide: A DEVICE FOR ATTACHMENT TO A BOX TYPE SOLAR COOKER FOR EFFICIENT HEAT TRANSFER.

Applicant: COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACTUACT XXI OF 1860).

Inventor: RAM KRISHNA HARIBHAU BHAWAL-KAR.

Application for Patent No. 278/Del/85 filed on March 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 claims

A device for attachment to a box type Solar Cooker for efficient heat transfer, the device comprising a convex blackened metal sheet absorber (1) having a central hollow ring (2) to receive a Cooking pot, the hollow of satoring containing a heat transfer medium, the hollow of satoring being connected with tubes (3), extending radially from said ring, said tubes, each having an open end connected to said hollow of the ring and the other end closed.

Complete specification 6 pages. Drg. 1 sheet.

Int. Class1: B29D 17/00 B41B 9/10.

163555

"IMPROVEMENT IN OR RELATING TO APPARATUS FOR THE INJECTION MOULDING OF DISC RECORD."

Applicant: PATHE MARCONI EMI SA, A FRENCH COMPANY OF 62, RUE DE SEVRES, BP 310 92102 BOULOGNE BILLENCOURT CEDEX, FRANCE.

Inventors: HERI AMORY & JEAN-MICHEL PROST.

Application for Patent No. 364/Del/85 filed on 29th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 claims

Apparatus for the injection moulding of disc records from plastics material, said apparatus comprising a first half-mould with a first matrix and a first fixing sleeve, and a second half-mould with a second matrix and a second lixing sleeve, one of said half-moulds being provided centrally thereof with an injector for plastics while the other said half-mould has, centrally thereof, an ejector for a finished disc record, each said matrix being clamped to its respective half-mould by means of its respective fixing sleeve, facing surfaces of the first and second matrices defining a substantially disc-shaped moulding cavity have a circular periphery, an annular air passage being provided adjacent to the periphery of the disc-shaped moulding cavity during a moulding operation said first and second fixing sleeves being releasably mounted around said first and second half-moulds respectively, said first and second fixing sleeves being provided with first and second flanges respectively, said flanges extending inwardly into a peripheral annular space between the matrices, the first and second flanges supporting the first and second half-moulds respectively, the first flange being provided with an inner annular blade, the annular blade having a substantially constant thickness and an inner edge defining a moulding surface at the periphery of the disc shaped moulding cavity, the annular

lar blade lying radially within its second flange, one or more portions of either the first or second flange having a substantially constant thickness which is greater than the thickness of the annular blade, said one or more portions lying in an annulus situated radially outside the inner edge of the annular blade such that the disc shaped moulding cavity has a width which portions, the width of said moulding cavity defining the thickness of a moulded disc record, and the annular air passage has a width which is substantially defined by the difference between the thickness of said one or more portions and the thickness of the annular Nade.

Complete specification 16 pages, Drgs. 3 sheet-

Int. Class1: H04R 9/06, 11/02.

16335

"A MULTIDRIVER LOUDSPEAKER."

Applicant & Inventor : JOHN STROHBEEN, A U.S. CITIZEN, OF 160 BERGEN STREET, BROOKLYN, NEW YORK 11205, UNITED STATES OF AMERICA.

Application for Patent No. 487/Del/85 filed on 19th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 claims

A multidriver loudspeaker comprising a low frequency driver having an inverted speaker cone, and an elongated voice coil former secured at one end to said inverted speaker cone, said low frequency driver having a virtual acoustical source which is the perceived origin of the sound emanating from the driver, said virtual acoustical source of said low frequency driver located along the coil former at a point proximate to the junction of said voice coil former and said inverted speaker cone, a high frequency driver having a virtual acoustical source, said high frequency driver located inside the voice coil former at a point proximate to the junction of said voice coil former and said inverted speaker cone so that the virtual acoustical source of said high frequency driver is at approximately the same location as the virtual acoustical source of said low frequency driver.

Complete Specification 15 pages. Drawings 2 sheets.

Int. Class⁴: C07C 63/20.

163557

"A PROCESS FOR THE VAPOUR PHASE CATALYTIC OXIDATION OF HYDROCARBONS SUCH AS OXYLFNE/NAPHTHALENE & HOMOLOGUES THEREOF FOR THE PRODUCTION OF CORRESPONDING ANHYDRIDES."

Applicant: ENGINEERS INDIA LIMITED, 1-I HOUSE-1, BHIKAJI CAMA PLACE, NEW DEI HI-110066, INDIA, A GOVT. OF INDIA UNDERTAKING INCORPORATED UNDER THE COMPANY ACT, 1956.

Inventors: INDRESH RAMPALL & AMALENDU DATTA.

Application for Patent No. 707/Del/85 filed on 29th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 claims

An improved process for the vapour phase catalytic oxidation of hydrocarbons such as o-xylene/naphalene and homologues thereof for the production of corresponding anhydrides which comprises subjecting the same to said oxidation with air and a fixed bed catalyst wherein the improvement comprises in carrying out the oxidation in a multi-stage reaction using a reaction mixture of air: hydrocarbon in a weight ratio of not more than 33-16: I.

Complete specification 8 pages. Drgs. 2 sheets.

Int. Cl.4: B 02 C 23/10.

163558

A CIRCULAR FLUID ENERGY MILL.

Applicant: INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P.O., MADRAS-600 036, TAMIL NADU, INDIA, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

Inventor : PROF. MELATHERU RAMANUJAM, PARADATH BHASKARAN NAIR RAJENDRAN NAIR.

Application No. 549/Mas/85 filed 17 July 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 claims

A circular fluid energy mill comprising a semi-circular grinding chamber; a semi-circular classification chamber in communication with the grinding chamber, said classification chamber having an outlet for discharge of the milled product; a feeder nozzle provided with a feed inlet, the feeder nozzle being tangentially disposed to the curvature of the grinding chamber; an auxiliary nozzle tangentially disposed to the curvature of the grinding chamber, and a plurality of grinding nozzles located between the auxiliary nozzle and the feeder nozzle, the size of the grinding nozzles being in ascending order of magnitude for a corresponding descending order of magnitude of grinding pressure.

Complete specification 8 pages and drawing 1 sheet.

Ind. Cl.: 187 E-2.

163559

Int. Cl.: HO 4 R-11/02, 9/06.

AN IMPROVED LOUDSPEAKER.

Applicant: PEICO ELECTRONICS AND ELECTRICALS LIMITED, SHIVSAGAR FSTATE, BLOCK 'A', DR. ANNI BESANT ROAD, WORLI, BOMBAY-400018, MAHARASHTRA, INDIA.

Inventor: VIDYUTKUMAR MADHAO BAPAT.

Application No.: 12/Bom/87 filed on 16th June, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, Bombay-400 013.

3 claims

1. An improved loudspeaker comprising a concave shaped basket provided with a plurality of holes and a concentric ring shaped portion on the inside surface and a concentric bulge on the outside surface, said ring shaped portion being provided with a step, said basket being further provided with a plurality of spaced apart legs, a top plate fitted in said ring shaped portion; a magnetic core, one end of which is supported on said top plate; a coil former

one end of which is disposed over the other end of said core, said coil former having a conductor coil wound thereon, the free ends of said coil being connected to a pair of terminals through lead wires, said terminals being provided on a strip supported on one of said legs, a bottom plate provided with a center hole and connected to a centering ring which is horizontally disposed and supported on said tormer; a permanent magnet provided with a center hole and disposed between said bottom plate and top plate in close contact therewith such that the center notes in said bottom plate and magnet are concentric, said core extending through the center holes in said magnet and bottom plate with a clearance between said core and the circumference of the center holes in said magnet and bottom plate; a dust cap provided at the other end of said former; and an inverted cone disposed in said basket over said centering ring, narrow end of said cone being supported on said former and wide end of said cone being supported on said basket.

Complete specification 10 pages. Drgs. 6 sheets.

Ind. Cl.: 145 B+C+D.

163560

Int. Cl.: D 21 H-5/00, D 21 G-9/00.

AN IMPROVED PROCESS FOR MANUFACTURING DIFFERENT TYPES OF COATED ART PAPER/BOARD AND A DEVICE FOR CARRYING OUT SAID PROCESS.

Applicant & Inventor: JAGDISH CHANDRA PAREKH, AN INDIAN CITIZEN, 11A JALDARSHAN 51 NEPEAN SEA ROAD, BOMBAY-400 036, MAHARASHTRA, INDIA.

Application No. 337/Bom/1987 filed on 28th December, 1987.

[Divisional of Patent Application No. 145/Bom/1986 dated the 14th May, 1986.]

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, Bombay-400 013.

4 claims

An improved process for manufacturing different types of coated art paper/board comprising of pulling out semi-tuished paper/board directly from output side calender of a paper mill or from middle or any point of a drying cylinder or pulling out finished paper/board from a paper recl as a starting material and passing it through a steam chamber having a plurality of guide and tension rolls in spaced relationship with each other for softening said semistimished paper/board during its passage therethrough; passing said softened paper/board through a coater provided above or ahead of said steam chamber, said coater having an applicator for applying coating materials such as french chalk mixed with known adhesives and chemicals, so as to form a paste, on one side thereof as required; drying said coated paper/board in a drier heated at controlled temperature and provided above or ahead of said coater; passing said dried coated paper/board through a calender ahead of said drier to give matt finish; passing said matt finish coated art paper/board through a luster press ahead of said supper calender for giving super glossy finish coated art paper/board through a luster press ahead of said supper calender for giving super glossy finish coated art paper/board on a reel of a reel former driven by a prime mover in known manner.

AND

A device for carrying out the improved process for manufacturing different types of coated art paper/board as claimed in claim 1 comprises a steam chamber having a

plurality of guide and tension rolls in spaced relationship with each other for feeding/guiding semi-finished/finished paper/board and softening it during its passage therethrough; a coater having applicator for coating paste of french chalk and known adhesives and chemicals on one side thereof during its passage therethrough, said coater being provided above or ahead of said steam chamber; a drier having temperature control means provided above or ahead of said coater for drying said coater materials to get impregnated with said coated paper/board during its passage therethrough; a known calender having plurality of heated rolls and a matt finish roll for giving matt finish to said dried coated art paper/board during its passage therethrough said calender being provided ahead of said drier; a super calender provided ahead of said calender for giving sir passage therethrough; a luster press having super mirror finish rolls provided ahead of said super calender for giving super glossy finish to said glossy finish coated art paper/board during its passage therethrough; a luster press having super mirror finish rolls provided ahead of said super calender for giving super glossy finish to said glossy finish coated art paper/board during its passage therethrough; and a real former having pop roll in friction contact with a detachably mounted reel for winding said finish coated art paper/board on said reel and wherein said pop roll is driven by a prime mover in known manner.

Complete specification 11 pages; Drg. 1 sheet.

Class. 103.

163561

Int, Cl. F 22b 37/00-

METHOD OF PRODUCING STEAM OR VAPOUR CONTINUOUSLY IN A BOILFR.

Applicant: THE BABCOCK & WILCOX COMPANY, AT

1010 COMMON STREET, NEW ORI EANS, P.O. BOX No. 60035, LOUISIANA 70160, U.S.A.

Inventors: 1. JOHN HENRY KLATT,

2. THEODORE NICHOLAS MATSKO

Application No. 654/Cal/84 filed September 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

5 Claims.

A method of producing steam or vapour continuously in a boiler having a plurality of heat traps lying in series along the flow path of combustion gases, resulting out of the combustion of the fuels, used for firing the boiler furnace and which combustion gases pass through the said heat traps, and wherein water is fed into the boiler which when heated, generates steam or vapour, and wherein the said heat traps are subjected to sootblowing for removing the soot deposited in and around the heat traps, during the course of generation of steam/vapour, with the help of steam or air as blowing medium, characterised in that steam or vapour is produced continuously without shuting down the boiler for effecting the said sootblowing of the heat traps, and for such purpose one heat trap at one time is subjected to said sootblowing by determining the optimal economic sootblowing cycle time for each heat trap according to the following steps:--

obtaining a fixed cost value (S) corresponding to the cost of running a sootblowing operation for the heat trap;

Calculating the average slope (a) for a loss of efficiency during a period between sootblowing operations for the heat trap;
5—277GI/88

determining the length (0c) for a sootblowing operation of the heat trap; $a_{\rm B}d$

calculating the optimum duration between sootblowing operations (Oopt) according to the relationship :

$$\sqrt{\frac{2}{\theta}c} + \frac{2SOc}{a} = 02.$$

Oopt ==

Compl. Socon. 18 pages.

Drg. 6 sheets,

CLASS: 30F-Fi; 32-Fab; 55-Ea 4 Ea.

163562

Inf. Cl. A 61 k 21/00; C 07 d 99/24.

A NOVEL PROCESS FOP PRODUCING A CFPHA- OSPORIN.

Applicant: TOYAMA CHEMICAL CO. LTD., OF 2-5, 3-CHOME, NISHISHINJUKU, SHINJUKU-KU, TOKYO, JAPAN.

Inventors:

- 1. HIROYUKI IMAIZUMI
- 2. TAKIHIRO INABA
- 3. SEISHI MORITA
- 4 RYUKO TAKENO
- 5. YOSHUHARU MUROTANI
- 6. HIROHIKO FUKUDA
- 7. JUNICHI YOSHIDA
- 8. KIYOSHI TANAKA
- 9 SHUNTARO TAKANO
- 10 ISAMII SAIKAWA.

Application No. 701/Cal/84 filed September 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Putents, Rules, 1972) Patent Office, Calcutta.

12 claims

A process for producing a cephalosporin represented by the formula III of the accompanying drawings or a salt thereof:

wherein R² is a lower alkyl group; R² is a hydrogen atom or a carboxyl-protecting group; and R² is a substituted or unsubstituted heterocyclic group as herein defined, said heterocyclic group being attached to the exomethylene group at the 3-position of the cephem ring through a carbon-nitrogen bond, which comprises reacting a compound represented by the formula [II]:

wherein R1 is a hydrogen atom or a substituted or unsubsituated alkyl, aralkyl, aryl or heterocyclic group as herein difined and R2 has the same meaning as defined above. with a compound represented by the formula [III]:

wherein R⁸ is a carboxyl-protecting group; and R⁴ has the same meaning as defined above, in the presence of boron trifluoride or a complex compound of borontrifluoride with a carboxylic acid easter, a dialkyl ether fulfolane or a nitride and then if desired removing the carboxyl-protecting the group or converting the product to a salt in a known ing group or converting the product to a salt in a known manner.

Complete specification 42 pages. Drgs. 9 sheets.

CLASS: $32-F_2$ (b); $55-E_4$; $60-X_9$ d; 128-F.

163563

Int. Cl.: A 61 k 31/00.

METHOD OF PREPARING PHARMACEUTICAL COMPOSITION COMPRISING GANGLIOSINES AND DERIVATIVES THEREOF.

Applicant: FIDIA S.p.A., VIA PONTE DELLA FABRICA, 3/A, 35031 ABANO TERME, ITALY.

Inventors: 1. FRANCESCO DELLA VALLE, 2. AU-RELIO FOMEO

Application No. 750/Cal/84 filed October 26, 1984.

Appropriate office for opposition proceedings Patents Rules, 1972) Patent Office, Calcutta. (Rule 4,

6 claims

A method for preparing pharmaceutical composition which comprises subjecting to mixing

- (a) at least one ganglioside compound including its inner ester or a pharamaceutically acceptable salt thereof or mixtures thereof, wherein said inner ester ganglioside derivative comprises,
 - (1) a carbohydrate portion, at least one ceramide and at least one acid moiety;
 - (2) said carbohydrate portion including at least one-N-acetylgalactosamine or N-acetylgluco-samine moiety and at least one glucose or galactose moiety;
 - (3) said acid moiety including at least one N-acetylneuraminio acid or N-glycolylnesuraminic acid:
 - (4) the carboxyl group of at least one of said moieties being ester bonded to a hydroxyl group of one of said carbohydrates or one of said acid moieties to form a lactonic ring:
- (b) a pharmaceutically acceptable carrier of diluent;
- (c) one or more conventional additives if required;

(d) the said composition being held under pressure in a spray device in the form of an automised powder or in the form of a Nebulized liquifled propellant suspension or solution and wherein if required a bronchodilator such as isoprenalin or adrena-line is additionally included during mixing.

Compl. Specn. 25 pages.

Drgs. 3 sheets.

CLASS: 35-E.

163564

Int. Cl.: B 24 d 1/00.

A METHOD FOR MAKING ALUMINNOUS ABRASIVE GRITS CONTAINING ALPHA ALUMINA AND ABRASIVE TOOI HAVING THE SAME.

Applicant: NORTON COMPANY, OF 1 NEW BOND STREET, WORCESTER, STATE OF MASSACHUSETTS,

Inventors :

- 1. THOMAS E. COTTRINGER
- 2. RONALD H. VAN DE MERWE
- 3. RALPH BAUER.

Application No. 36/Cal/85 filed January 19, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 claims

A method for making aluminous abrasive grits containing alpha-alumina and/or abrasive tool having the same, which comprises admixing (i) an aqueous dispersion of subwhich comprises admixing (i) an aqueous dispersion of submicron hydrated non-alpha-alumina particles with (ii) submicron alpha-alumina seed material, drying said mixture to produce a dry, seeded gel and firing said dried, seeded gel to a temperature of at least 1090°C, to convert said non-alpha-alumina-containing material in said dried seeded gel to alpha-alumina crystals of submicron size, said gel being crushed after said drying step whereby the fired gel material comprises grits of appropriate size for use as an abrasive, said abrasive grits having a hardness of at least 14 GPa, said bydrated alumina particles optionally including a compatible precursor of MgO whereby the resulting abrasive grits contain a mixture of both alpha-alumina drystals and magnesia spinel crystals, thereafter optionally making and magnesia spinel crystals, thereafter optionally making said abrasive tool in a conventional manner with the said abrasive grits.

Compl. Specn. 16 pages. Drg. nil.

CLASS: 90-T; 144-B. Int. Cl. C 03 c 17/00. 163565

1 IOUID COATING COMPOSITION FOR PRODUCING THIGH QUALITY HIGH PERFORMANCE FLUORINE-DOPED TIN OXIDE COATINGS.

Applicant: M&T CHEMICALS, INC. OF 1 BRIDGE CENTER, WOODBRIDGE, NFW JERSEY 07095. U.S.A.

Inventors: 1. DAVID ALAN RUSSO, 2. GEORG HEINRICH LINDNER.

Application No. 247/Cal/85 filed April 2, 1985.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Calcutta

8 claims

A liquid coating composition for making high quality fluorine-doped tin oxide coatings having a low sheet resistance and high visible light transmission characterized by comprising:

- (a) 1-30 wt. % of an organic fluorine dopant compound which is selected from trifluoroacetic acid, trifluoroacetic anhydride, ethyl trifluoroaceto acetate trifluoroethanol, ethyl trifluoroacetute or pantafluoropropionic acid and
- (b) 70-99 wt. % of tintetrachloride or an organotin compound which is selected from an alklytin trichloride, a dialkyltin dichloride, an alkyl-dichlorotin acetate, an alkylchlorotin diacetate, dialkylchlorotin acetate and an ester tin trichloride.

Compl. Specn. 18 pages.

Drg. 1 sheet.

CLASS:

163566

Int. Cl.; A 61 I 17/00.

A SURGICAL PROSTHESIS CONSISTING OF Λ DRAWN AND ORIENTED SURGICAL FILAMENT.

Applicant: ETHICON, INC., AT SOMERVILLE, NEW JERSEY, U. S. A.

Inventors: 1. ROBERT LILENFELD, 2. NICHOLAS MICHAEL POPADIUK, 3. PETER STEINHEUSER, 4. EDGER MENEZES.

Application No. 376/Cal/85 filed May 18, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A surgical prosthesis consisting of a drawn and oriented surgical filament comprising of a copolymer of vinylidenc fluoride and hexafluoro-propylene, having the following properties:

knot strength above 35,000 psi straight tensile strength above 50,000 psi break clongation 20 to 50%

young's modulus below 3,00,000 psi.

Compl. Specn. 14 pages. Drg. Nil.

CLASS: 116-G; 204. 163567

Int. Cl.; B 65 g 65/00, 67/00.

UNLOADER CUM WEIGH BRIDGE SYSTEM FOR CONTAINERS, CARRIERS AND TRUCKS.

Applicant: USHA ATLAS HYDRAULIC EQUIPMENT LIMITED, OF 14, PRINCEP STREET, CALCUTTA-700 012, WEST BENGAL, INDIA.

Inventor: 1. SRINIVASAN MAHALINGAM.

Application No. 471/Cal/85 filed June 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An unloader cum weigh bridge system for containers, carriers or trucks comprising an unloader in combination with a weigh bridge wherein the unloader base frame is fixed in the weigh bridge platform, the weight bridge being provided with loud cells through which it is connected to the controls and recorders.

Compl. Specn. 8 pages.

Drgs. 3 sheets.

CLASS: 116-G.

163568

Int. Cl.: B 65 g 65/00, 67/00.

UNLOADERS FOR CONTAINERS, CARRIERS OR TRUCKS.

Applicant : USHA ATLAS HYDRAULIC EQUIPMENT LIMITED, OF 14, PRINCEP STREET, CALCUTTA-700 012, WEST BENGAL, INDIA.

Inventor: 1. SRINIVASAN MAHALINGAM.

Application No. 472/Cal/85 filed June 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An unloader for containers carriers and trucks comprising a base frame adapted to be embedded onto a foundation, a top frame placed on the said base frame and hingedly fixed to it at its rear end the front end being free, an actuating linkage and a power pack for operating a hydraulic pump to lift the top frame at an angle of inclination to the base frame at the point where the said top and base frames are hingedly fixed.

Compl. Specn. 6 pages.

Drgs. 2 sheets.

CLASS: 116-B & H.

163569

Int. Cl.; B 66 c 17/00.

OVERHEAD TRAVELLING CRANE.

Applicant: DNEPROPETROVSKY METALLURGIC-HESKY INSTITUT IMENI L. I. BREZHNEVA, OF DNE-PROPETROVSK, PROSPEKT GAGARINA 4, USSR.

Inventors: 1. ANATOLY VASILIEVICH TRUSHIN, 2. VLADIMIR AKRADIEVICH DOBROVENSKY, 3. ARKADY SEMENOVICH MALKIN, 4. EVGENY IVANOVICH SHEVCHENKO, 5. VLADIMIR GEORGIEVICH GUTSOL, 6. ALEXEI DANILOVIDH PETROV, 7. JURY GEORGIEVICH BURYAK, 8. ANATOLY IVANOVICH ZAKHAROV.

Application No. 596/Cal/86 filed August 5, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

An overhead travelling crane, comprising two main girders which are rigidly connected, through one pair of their ends, to one of the end girders, while the other ends of the girders are movably connected to the other end girder, and are rigidly interconnected through a cross-girder and a means for fixing in position a traversable end girder is located on the same girder the means being interposed between the main girders and arranged lengthwise parallel to their longitudinal axes.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS: 47-C.

163570

Int. Ci.; C 10 b 25/00.

SEALING DEVICE FOR DOOR FRAMES AND FLASH PLATES OF COKE OVEN BATTERIES.

. _____

Applicant: METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED, (A GOVT. OF INDIA UNDERTAKING) AT DORANDA, RANCHI-834 002, BIHAR, INDIA.

Inventors: 1. GOPALAN NAIR VENUGOPAL, 2. POTLA PALLI KRISHNA RAO, 3. T. R. SAMPAT-KUMAR, 4. N. RAJEEVA BABU.

Application No. 108/Cal/86 filed February 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A scaling device for dor frames/flash plates of coke oven batteries to prevent gas leakage and subsequent blazing comprising an elongated pressure plate (11) disposed such as to hold and press rows of scaling material (12) along the joint between the top of the door frames/flash plates and the brickwork of the coke oven, and a support means (13) securely fixed to a part of the coke oven anchorage system for supporting the said pressure plate through a number of adjustable connecting means (14, 15), the arrangement being such that the said pressure plate is capable of being pressed against the said sealing material, and the pressure on the said pressure plate and consequently on the said sealing material is adapted to be adjusted with the help of the said connecting means, so as to ensure leakage free joint at the top of the door frames/flash plates.

Compl. Specn. 12 pages.

Drgs. 2 shects.

CLASS: 128-K.

163571

Int, Cl.: A 61 b 17/00.

A SCISSOR-TYPE MEDICAL INSTRUMENT FOR REPEATEDLY APPLYING A PLURALITY OF LIGATING CLIPS.

Applicant: ETHICON, INC., IN SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor: 1. JAMES ANTHONY TRANSUE.

Application No. 179/Cal/83 filed February 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A Scissors-type medical instrument for repeatedly applying a plurality of ligating clips seriatim about tissue wherein each said clip is initially provided in an open state and wherein each said clip includes: first and second legs joined at their proximal ends by a resilient hinge to define the rear end of the clip and spaced apart at their distal ends at the front of the clip with said legs having latch means at said distal ends for holding said clip closed in clamping engagement about said tissue when said legs are squeezed together; said instrument comprising:

first and second handles mounted together for pivotal movement about a pivot axis, each said handle extending forwardly beyond the pivot axis to form a clip closing jaw;

said first handle including a guideway for receiving a plurality of said open clips in a single row with the clips arranged in end-to-end relationship with the distal end of said first leg of one clip abutting the hinge of the next forwardly adjacent clip, said first handle including clip retaining means for engaging each said clip to retain said clips in sliding engagement within said first handle in said guideway;

means for moving said row of clips forwardly along said guideway to said jaws;

an escapement member at said first handle jaw mounted for pivotal movement about an axis generally parallel with said handle pivot axis between a first orientation and second orientation, said escapement member, including a forward protuberance adapted to project into said guideway in said first handle jaw to engage a portion of a clip to prevent the passage of the engaged clip there past when said escapement member is in said first orientation but permitting the passage of the clip there-past when the escapement member is in said second orientation, said escapement member having a rearward protuberance spaced rearwardly from said forward protuberance, said rearwardly from said forward protuberance, said rearward protuberance being adapted to project into said guideway to engage a portion of the next rearwardly adjacent clip to prevent the passage of that clip therepast when said escapement member is in said second orientation but permitting the passage of that clip therepast when said escapement member is in said first orientation;

a rod hingedly connected with said escapement member and extending rearwardly from said escapement member along said first handle;

means associated with said rod and with said second handle for moving said rod rearwardly when said handles are moved toward one another a sufficient amount so as to squeeze together and latch closed the front clip in the row whereby said escapement member pivots to said second orientation in which (1) said forward protuberance permits discharge of a latched closed clip from the jaws when the jaws are subsequently partially opened, and (2) said rearward protuberance prevents forward movement of the next rearwardly adjacent open clip into said jaws; and

means for biasing said rod forwardly when said handles are moved away from one another a sufficient amount to open said jaws further beyond said partially opened position whereby said escapement member pivots to said first orientation in which (1) said rearward protuberance permits passage of said next clip to said jaws and (2) said forward protuberance engages said next clip to maintain the next clip between the jaws.

Compl. Speen. 35 pages.

Drgs. 3 sheets.

CI ASS : 32-E.

163572

Int C1 : C 08 g 30/00.

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors: 1. WOLFGANG ROGLER, 2. HELMUT MARKERT, 3. KLAUS KRETZSCHMAR, 4. GER-HARD PIECHA.

Application No. 392/Cal/84 filed June 8, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A thermosetting reactioners in mixture comprising (a) a polyfunctional epoxide, (b) a polyfunctional isocyanute, (c) a reaction accelerator such as herein described and, if desired, (d) a customary additive and/or a filter; charcterized in that the polyfunctional isocyanate comprises an isocyanate prepolymer in the form of a reaction product of either (i) diphenylmethane diisocyanate and a diol, or (iii) an isocyanate propolyment of dispersionate and a diol, or of either (1) dipnenyimethane diisocyanate and a diol, of (ii) an isocyanage mixture of diphenylmethane diisocyanate and polymethylene polyphenyl isocyanate with a functionality greater than 2, and a diol; wherein from 0.01 to 0.35 equivalents of diol are present for 1 equivalent of isocyanate, and from 0.2 to 5 equivalents of isocyanate are present for 1 equivalent of epoxide; and wherein the receipt accelerator where the remine of and wherein the reaction accelerator is a tert-amine or imidazole.

Compl. Speca. 22 pages.

Drg. 1 sheet.

CLASS: 134-D.

163573

- Int. Cl.: B 62 d 1/00.

OLEODYNAMIC CONTROL DEVICE FOR STEERING THE PIVOTABLE WHEELS OF VEHICLES PROVIDED WITH STRAIGHT TRAVELLING, STABILIZER.

Applicant & Inventor: ROBERTO PERLINI, OF ITALY, AND RESIDING AT 37047, SAN BONIFACIO-LOCARA, ITALY.

Application No. 13/Cal/85 filed January 7, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Clairus

Oleodynamic control device for steering pivotable wheels of motor vehicles provided with an automatic straight travelling stabilizer and an oleodynamic steering actuator connected by a double hydraulic circuit to the device which is constituted by a member having a cylindrical geometry and a chamber of variable volume for slidably receiving a movable wall element which in a straight travelling attitude occupies a central position in said member and is actuated by changes in the driving direction of the vehicle, characterized in that in said central position and in the vicinity thereof there is a by-pass of the fluid to a reservoir, with discharge of pressure for any movement of said movable element within the range of said vicinity of the central position.

Compl. Specn. 18 pages.

Drgs. 5 sheets.

CLASS: (11.

163574

Int. Cl. : A 01 k 11/00 + B 65 c 7/00.

A ONE PIECE INFORMATION/IDENTIFICATION

Applicant: ALLFLEX NEW ZEALAND LIMITED, OF 931 TREMAINE AVENUE, PALMERSTON NORTH, NEW ZEALAND.

Inventor: 1. LINDSAY WILLIAM JOHN COHR.

Application No. 275/Cal/85 filed April 11, 1985.

Convention dated 18th April, 1984 (207898) New Zealand.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A one piece information/identification tag formed from a resilient plastics material said tag comprising a mounting member and a pair of panels attached thereto, said mounting member having a pair of limb portions coupled together an intermediate portion and said panel extending from the end of each limb portion.

Compl. Specn. 12 pages.

Drg. 1 sheet.

CLASS: 33-A.

163575

Int. Cl.: B 22 d 11/00.

PROCESS FOR PRODUCING PROTECTIVE LAYER RESISTANT TO WEAR AND TEAR, ON THE SHAPE GIVING SURFACES OF A CONTINUOUS CASTING INGOT MOULD AND AN INGOT MOULD SO PRO-DUCED.

Applicant: KABEL-UND METALLWERKE GUTEHOF-FNUNGSHUTTE AKTIENGESELLSCHAFT, OF KLOSTERSTRASSE 29, 4500 OSNABRUCK, WEST GERMANY.

Inventor: 1. DIPL.-ING. HORST GRAVEMANN.

Application No. 302/Cal/85 filed April 20, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

Process for producing a protective layer, resistant to wear and tear, on the shape-giving surfaces of the wall of a continuous casting ingot mould made of copper comprising providing a metallic layer or a metal-containing layer, such as herein described, on the said shape giving surfaces of the mould in an adhesive manner, such as herein described and subjecting the said layer to the effect of a laser beam, whereby the bordering zone between the said layer facing the ingot mould body and the adjoining ingot mould body is metallurgically joined by sumultaneous fusion of the metallic layer(s) of the ingot mould body in the bordering region as well as those of the said metallic or metal-containing layer.

Compl. Specn. 22 pages.

Drg. 1 sheet.

CLASS: 55-D₉.

163576

Int. Cl.: A 01 n 63/00, 61/00, 25/16.

PROCESS OF PREPARATION OF INSECTICIDAL COMPOSITION FOR CONTROLLING INSECTS WHICH HAVE AN AQUATIC BREEDING SITE.

Applicant: UNIVERSITY OF SOUTHAMPTON, SOUTHAMPTON, HAMPSHIRE, S09 5NH, UNITED KINGDOM.

Inventor: 1. ARNOLD IVOR Mc MULLEN.

Application No. 351/Cal/85 filed May 6, 1985.

Convention dated 10th April, 1985 (8509149) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Process for preparing an insecticidal composition for controlling insects which have an equatic breeding site comprising admixing a first component such as herein described which is capable of forming either an insoluble monomolecular layer, an insoluble foam layer or duplex film layer on the surface of a water catchment and a second component such as herein described which has a toxic action on larvae giving rise to a synergist mixture.

Compl. Specn. 23 pages.

Drg. 1 sheet,

CLASS: 47-A & C.

163577

Int. Cl. : C 10 b 47/00.

PROCESS FOR PREPARING COAL CHANGE FOR THE PRODUCTION.

Applicant: VOSTOCHNY NAUCHNO-ISSLEDOVAT-ELSKY UGLEKHIMICHESKY INSTITUT (VUKHIN), OF SVERDLOVSK, ULITSA 8 MARTA, 14, USSR.

Inventors: 1. OLEG STEPANOVICH MOROZOV, 2. EVGENY VALENTINOVICH BELYAEV, 3. IZRAIL MIKHAILOVICH LAZOVSKY, 4. VADIM IVANOVICH SUKHORUKOV, 5. ALEXANDR NIKOLAEVICH BERKUTOV, 6. VASILY VASILIEVICH KOCHKIN, 7. EVGENY TROFIMOVICH KAIDALOV.

Application No. 425/Cal/85 filed June 5, 1985.

Appropriate office for opposition proceedings (Rule 4, Putents Rules, 1972) Patent Office, Calcutta.

1 Claim

Process for preparing a coal charge for coke-making, comprising stages:—

- blending of coals by convention methods to get, a coal charge for coke-making;
- (2) preliminary crushing of said coal charge;
- (3) delivering the coal charge after preliminary crushing into a separator for pneumatic separation wherein said charge is fractionated into two products; small size product containing 75—80 percent of particles with a size of less than 3 mm and accordingly the remaining 20—25 percent of particles with a size of more than 3mm and a large size product containing 20—25 percent of particles with a size of less than 3 mm and accordingly the remaining 75—80 percent of particles with a size of more than 3 mm.
- (4) crushing said large-sized product to a size of less than 3 mm;
- (5) recycling said crushed large-sized product into initial coal charge delivered to stage (2).

Compl. Specn. 14 pages.

Drg. Nil.

CLASS: 97-E.

163578

Int. Cl.: F 27 d 11/06; H 05 b 6/02, 6/06, 6/18.

PLASMA-INDUCTION FURNACE.

Applicant: VSESOJUZNY NAUCHNO-ISSLEDOVAT-ELSKY PROEKTNOKONSTRUKTORSKY I TEKHNOLO-GICHESSKY INSTITUT ELEKTROTERMICHESKOGO OBORUDOVANIA (VNIIETO), OF NIZHEGORODSKA-YA ULITSA, 29, MOSCOW, USSR.

Inventors: 1. MIKHAIL YAROVLEVICH KAPLUN,

Inventors: 1. MIKHAIL YAROVLEVICH KAPLUN, 2. MIKHAIL MIRONOVICH KRUTYANSKY, 3. VADIM GEORGIEVICH LADOZHSKY, 4. VLADIMIR SERGEEVICH MALINOVSKY, 5. LEONID BORISOVICH ODNOPOZOV, 6. ALESANDR ALESANDROVICH PROSTYAKOV, 7. ALESANDR LVOVICH REZUNENKO, 8. ALESANDR VIKTOROVICH SVIDO, 9. EVGENY PETROVICH 1EREKHOV, 10. NIKOLAI IVANOVICH FOMIN.

Application No. 521/Cal/86 filed July 11, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A plasma-induction furnace comprising a refractory crucible surrounded by an induction heater, a plasma generator disposed over the crucible and connected to a power supply source, and a bottom electrode disposed in the crucible bottom and connected to the power supply source of the plasma generator through a switching device, the top portion of the crucible being made in the form of a cooled metal ring.

Compl. Speen. 8 pages.

Drg. 1 sheet.

CLASS:

163579

Int. Cl. : E 01 c 19/00.

A VIBRATORY ROAD ROLLER.

Applicant & Inventor: VIJAY KUMAR KHANNA, OF INTERNATIONAL ENGINEERING & CONSTRUCTION CO. 16 EIPLABI RASH BEHARI BOSE ROAD, CALCUTTA-700 001, STATE OF WEST BENGAL, INDIA.

Application No. 147/Cal/86 filed February 28, 1986.

Complete Specn. left on 27th May, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

35 Claims

A vibratory road roller comprising two separate drums connected in tandem, of which the front drum is provided with means for causing both vibration and traction of the roller while the rear drum is provided with means for steering the roller.

Provl. Speen. 7 pages.

Drg | sheet.

Compl. Specn. 19 pages.

Drg. 1 sheet.

CLASS: 39.

163580

Int. Cl.: B 01 j 11/00.

PROCESS FOR HYDROGENATING UNSATURATED ORGANIC COMPOUNDS.

Applicant: UNILEVER P.C., OF UNILEVER HOUSE, BLACKFRIARS, LONDON E. C. 4, ENGLAND.

Inventors: 1. HELMUT KLIMMEK, 2. GUNTER KLAUENBERG.

Application No. 216/Cal/87 filed March 13, 1987.

Division of Appl. No. 22/Cal/84 dated 10th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office. Calcutta.

3 Claims

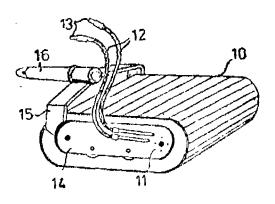
A process for hydrogenating unsaturated organic compounds, said process being effected in a known manner in the presence of a hydrogenation catalyst, said hydrogenation catalyst, containing 10—90 parts by weight of nickel/nickel compounds and 90—10 parts by weight of silica and having an overall active nickel surface of 70—200m²/g, preferably more than 100m²/g per gram nickel,

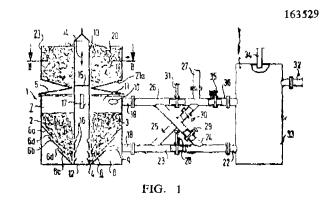
characterized in that the catalyst comprises nickel/nickel compound aggregates with an average particle size ranging from 2 to 100 micrometers and that the nickel/nickel compound aggregates are for at least 60% free of carrier particles.

Compl. Specn. 13 pages.

Drg. 1 sheet,

163528





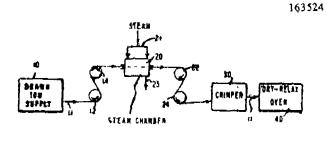
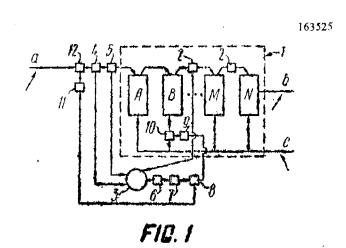
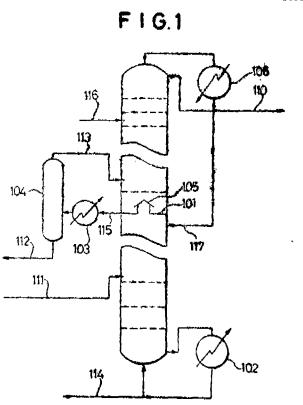
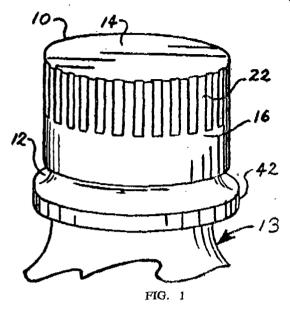


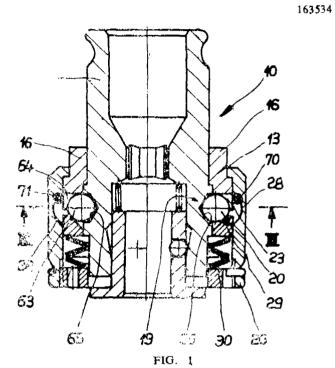
FIG. 1

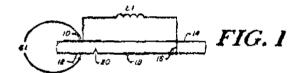


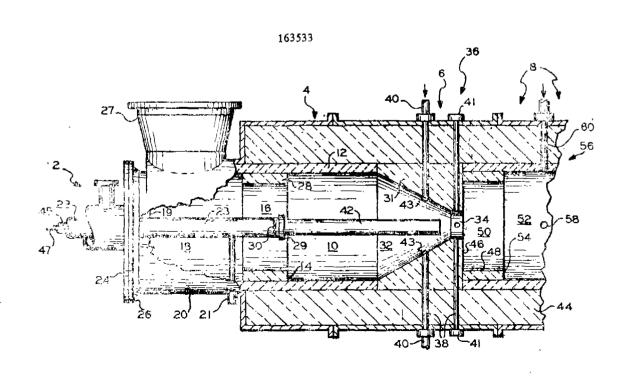


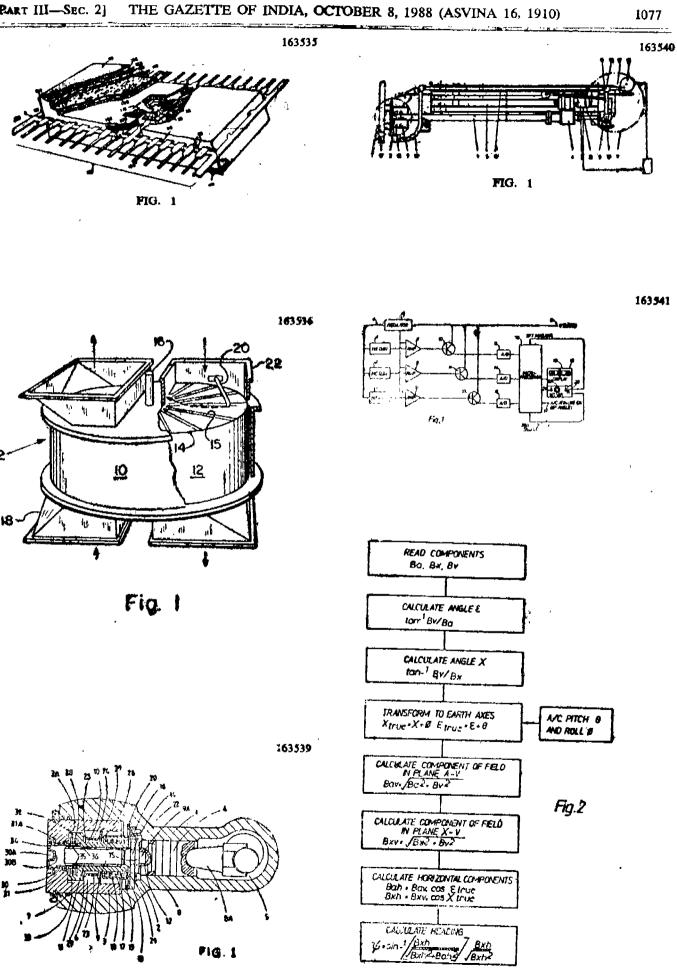
163530







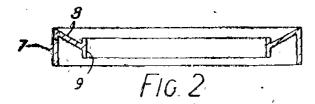


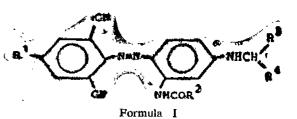


PIG. 1

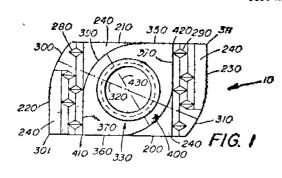
163542

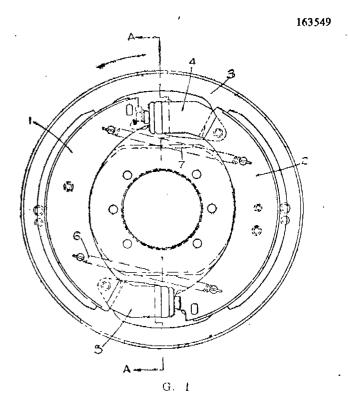


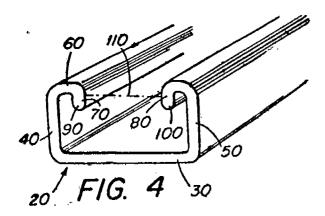


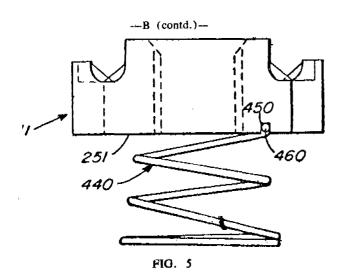


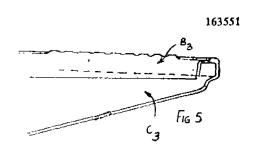
163545



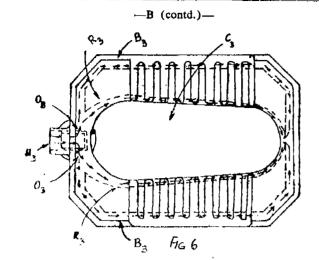


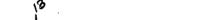


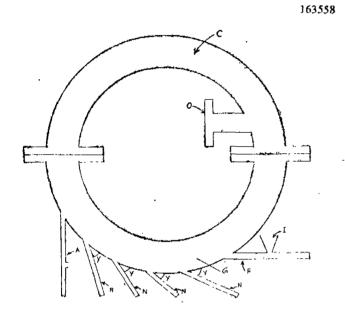


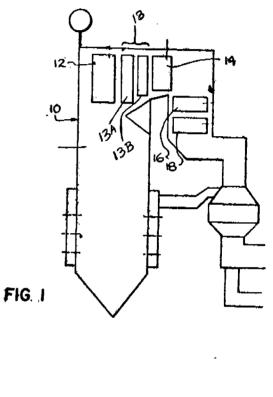


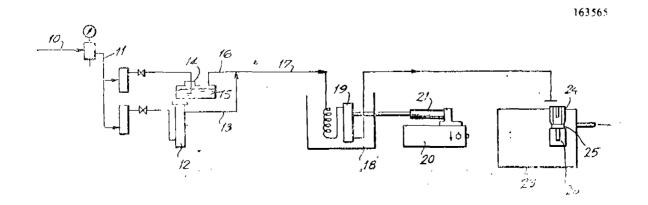
163561

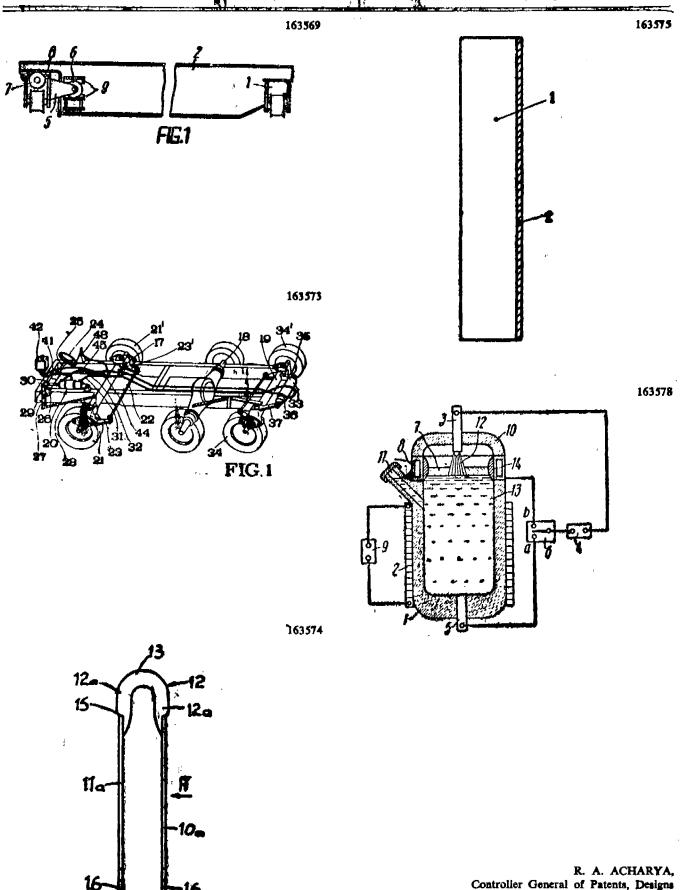












and Trade Marks.